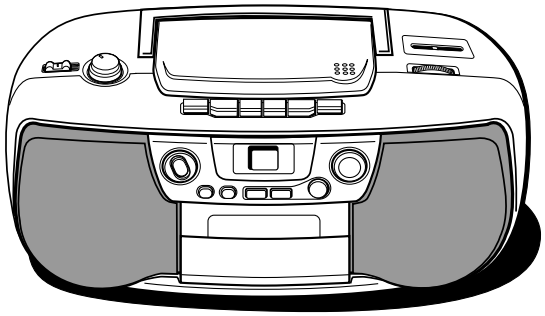
aiwa
SERVICE

CSD-A190

EZ(S,ST,L),
K(S,ST),
V(ST)



SERVICE MANUAL

CD STEREO RADIO
CASSETTE RECORDER

BASIC TAPE MECHANISM:TN-21ZVC-2000
BASIC CD MECHANISM :KSM-213 RDM

Ver. 1.0

aiwa

S/M Code No. 09-027-457-0R1

SPECIFICATIONS -1/1

Tuner section
Frequency range, antenna – FM: 87.5 - 108.0 MHz Rod antenna, AM: 530 - 1,605 kHz Ferrite bar antenna

Deck section
Track format – 4 tracks, 2 channels / Frequency range – Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system – AC bias / Erasing system – Magnet erase / Heads – Recording/playback head (1), Erasure head (1)

CD player section
Disc – Compact disc / Scanning method – Non-contact optical scanner (semiconductor laser)

General <EZ, V>
Speaker – 100 mm cone type (2) / Power output – 2 W + 2 W (EIAJ 8 ohms, T.H.D. 10% DC), 1 W + 1 W (DIN 1% Rated Power) / Power requirements – DC 12 V using eight size C (R14) batteries, AC 230 V, 50 Hz / Power consumption – 13 W / Dimensions (W × H × D) – 390 × 167 × 255.5 mm / Weight – 2.7 kg (excluding batteries)

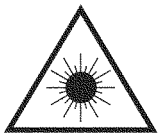
General <K>
Speaker – 100 mm cone type (2) / Power output – 3.4 W + 3.4 W (DIN MUSIC POWER), 2 W + 2 W (EIAJ 8 ohms, T.H.D. 10% DC), 1 W + 1 W (DIN 1% Rated Power) / Power requirements – DC 12 V using eight size C (R14) batteries, AC 230 V, 50 Hz / Power consumption – 13 W / Dimensions (W × H × D) – 390 × 167 × 255.5 mm / Weight – 2.7 kg (excluding batteries)

- Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING -1/1

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

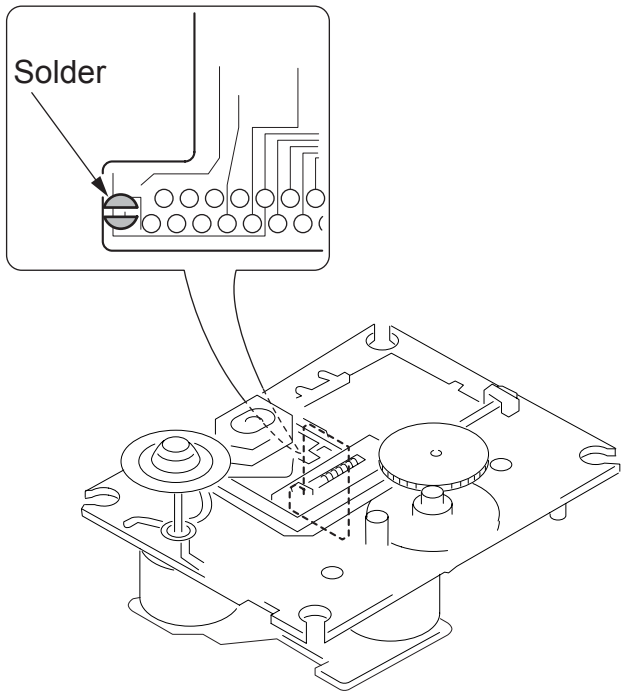
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

PRECAUTION TO REPALCE OPTICAL BLOCK (KSM-213 RDM) -1/1

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.



ACCESSORIES PARTS LIST -1/1

! = ⚠SAFTY PARTS
C = Components marked
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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL					
						CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
	!	O	AS1001	S0-230-000-000	EURO CONVERTOR PLUG 250V/2.5A	.	.	.	.	e	.
	!	O	AS1002	87-099-726-110	EURO CONVERTOR PLUG 250V/2.5A	.	.	.	d	.	.
		O	AS1003	8C-CDC-906-010	IB,(EZ)	a	b	c	.	.	.
		O	AS1004	8C-CDC-905-010	IB,(K)	.	.	.	d	e	.
		O	AS1005	8C-CDC-907-010	IB,(V)	.	.	.	.	.	f
	!	O	AS1006	87-A80-081-110	CORD,POWER 2.5A	a	b	.	.	e	.
	!	O	AS1007	87-A80-081-110	PCA-VDE-6'&&&-VDE-NM	.	.	c	d	.	f
		X	AS1008	SC-CDC-950-400	CD DOOR CARD	a	b	c	d	e	f
		X	AS1009	SC-CDC-950-300	CASS DOOR CARD CCDC-95-03 S:1	a	b	c	d	e	f

ELECTRICAL PARTS LIST -1/7

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL					
						CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
BEAT CUT		O	SW	0802	S2-200-911-010 SW,SLIDE SK22F03G9	a	b	.	.	e	f
BEAT CUT		O	SW	0802	8C-CDC-622-180 SLIDE SW SK22F03G9	.	.	c	d	.	.
CASSETTE		O	C	0302	87-010-263-080 CAP,E 100-10V	a	b	c	d	e	f
CASSETTE		O	C	0303	87-010-404-010 CAP,E 4.7-50V	a	b	c	d	e	f
CASSETTE		O	C	0304	S0-102-101-000 CAP,M 0.001UF-100V	a	b	c	d	e	f
CASSETTE		X	C	0305	S0-273-101-000 CAP,M 0.027UF-100V	a	b	c	d	e	f
CASSETTE		O	C	0306	87-010-037-010 CAP,E 10-50V	a	b	c	d	e	f
CASSETTE		O	C	0307	87-010-404-010 CAP,E 4.7-50V	a	b	c	d	e	f
CASSETTE		O	C	0308	87-010-263-080 CAP,E 100-10V	a	b	c	d	e	f
CASSETTE		O	C	0310	S0-102-101-000 CAP,M 0.001UF-100V	a	b	c	d	e	f
CASSETTE		O	C	0311	87-010-375-010 CAP,E 330-10V	a	b	c	d	e	f
CASSETTE		X	C	0312	S0-273-101-000 CAP,M 0.027UF-100V	a	b	c	d	e	f
CASSETTE		X	C	0313	S0-222-101-000 CAP,M 0.0022UF-100V	a	b	c	d	e	f
CASSETTE		O	C	0314	S0-102-101-000 CAP,M 0.001UF-100V	a	b	c	d	e	f
CASSETTE		X	C	0315	S0-222-101-000 CAP,M 0.0022UF-100V	a	b	c	d	e	f
CASSETTE		O	C	0316	S0-102-101-000 CAP,M 0.001UF-100V	a	b	c	d	e	f
CASSETTE		X	C	0334	S0-102-800-500 CAP,CER 0.001U-50V	a	b	c	d	e	f
CASSETTE		O	C	0335	87-010-248-080 CAP,E 220-10V	a	b	c	d	e	f
CASSETTE		X	C	0336	S0-103-101-000 CAP,M 0.01UF-100V	a	b	c	d	e	f
CASSETTE		X	C	0337	S0-103-101-000 CAP,M 0.01UF-100V	a	b	c	d	e	f
						CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
CASSETTE		O	C	0338	S0-472-101-000 CAP,M 0.0047UF-100V	a	b	c	d	e	f
CASSETTE		O	C	0340	87-010-248-080 CAP,E 220-10V	a	b	c	d	e	f
CASSETTE		X	C	0393	S0-331-100-500 CAP,CER 330PF-50V	a	b	c	d	e	f
CASSETTE		X	C	0394	S0-331-100-500 CAP,CER 330PF-50V	a	b	c	d	e	f
CASSETTE		O	CNH	0002	S0-401-68C-010 HSG CD168-103(C) PEC 2507-H-4	a	b	c	d	e	f
CASSETTE		O	D	0302	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
CASSETTE		O	D	0303	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
CASSETTE		O	IC	0301	87-020-636-010 IC,BA3308	a	b	c	d	e	f
CASSETTE		S	Q	0301	89-318-154-080 TR,2SC1815GR	a	b	c	d	e	f
CASSETTE		S	Q	0302	S6-805-000-000 TR,3DA8050	a	b	c	d	e	f
CASSETTE		X	R	0301	S0-823-510-160 RES,82K-1/16W	a	b	c	d	e	f
CASSETTE		X	R	0302	S0-224-510-160 RES,220K-1/16W	a	b	c	d	e	f
CASSETTE		X	R	0303	S0-823-510-160 RES,82K-1/16W	a	b	c	d	e	f
CASSETTE		X	R	0304	S0-101-510-160 RES,100-1/16W (1	a	b	c	d	e	f
CASSETTE		X	R	0305	S0-680-510-160 RES,68-1/16W (1/	a	b	c	d	e	f
CASSETTE		X	R	0306	S0-472-510-160 RES,4.7K-1/16W	a	b	c	d	e	f
CASSETTE		X	R	0307	S0-472-510-160 RES,4.7K-1/16W	a	b	c	d	e	f
CASSETTE		X	R	0308	S0-680-510-160 RES,68-1/16W (1/	a	b	c	d	e	f
CASSETTE		X	R	0309	S0-472-510-160 RES,4.7K-1/16W	a	b	c	d	e	f
CASSETTE		X	R	0310	S0-223-510-160 RES,22K-1/16W (1	a	b	c	d	e	f
						CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
CASSETTE		X	R	0311	S0-103-510-160 RES,10K-1/16W (1	a	b	c	d	e	f
CASSETTE		X	R	0312	S0-102-510-160 RES,1K-1/16W (1/	a	b	c	d	e	f
CASSETTE		X	R	0313	S0-472-510-160 RES,4.7K-1/16W	a	b	c	d	e	f
CASSETTE		X	R	0339	S0-152-101-000 CAP,M 0.0015U-100V	a	b	c	d	e	f
CASSETTE		X	R	0339	S0-103-510-160 RES,10K-1/16W (1	a	b	c	d	e	f
CASSETTE		X	R	0340	S0-470-510-160 RES,47-1/16W	a	b	c	d	e	f
CASSETTE		X	R	0341	S0-332-510-160 RES,3.3K-1/16W	a	b	c	d	e	f
CASSETTE		X	R	0342	S0-103-510-160 RES,10K-1/16W (1	a	b	c	d	e	f
CASSETTE		O	SW	0301	S0-092-200-000 SW,REC 9P2T 2MM	a	b	c	d	e	f
CASSETTE		O	T	0301	S0-036-300-100 IFT,4A363R(B)	a	b	c	d	e	f
CASSETTE		O	VR	0301	S1-030-850-000 SFR,10K	a	b	c	d	e	f
CONTROL		O	CN	0501	SF-008-180-000 HSG(2mm)JST PHR-08	a	b	c	d	e	f
CONTROL		O	CN	0502	SF-009-180-000 HSG(2mm)JST PHR-09	a	b	c	d	e	f
CONTROL		O	D	0505	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
CONTROL		O	D	0506	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
CONTROL		O	D	0507	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
CONTROL		O	D	0508	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
CONTROL		O	D	0509	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
CONTROL		O	D	0510	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
CONTROL		O	DP	0501	SB-CDC-624-010 LED,A505RD-DR	a	b	c	d	e	f
						CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
CONTROL		O	LED	0501	S0-330-400-130 LED,W03304RSD	a	b	c	d	e	f
CONTROL		X	R	0501	S0-222-510-160 RES,2.2K-1/16W	a	b	c	d	e	f
CONTROL		X	R	0506	S0-101-510-160 RES,100-1/16W (1	a	b	c	d	e	f
CONTROL		O	SW	0501	S2-200-410-010 SLIDE SW SS22D07G4/SS22D07G A	a	b	c	d	e	f
CONTROL		O	SW	0502	S1-141-650-000 (F021-KHH902-001) TACT SW EVQ	a	b	c	d	e	f
CONTROL		O	SW	0503	S1-141-650-000 (F021-KHH902-001) TACT SW EVQ	a	b	c	d	e	f
CONTROL		O	SW	0504	S1-141-650-000 (F021-KHH902-001) TACT SW EVQ	a	b	c	d	e	f
CONTROL		O	SW	0505	S1-141-650-000 (F021-KHH902-001) TACT SW EVQ	a	b	c	d	e	f
CONTROL		O	SW	0506	S1-141-650-000 (F021-KHH902-001) TACT SW EVQ	a	b	c	d	e	f
CONTROL		O	SW	0507	S1-141-650-000 (F021-KHH902-001) TACT SW EVQ	a	b	c	d	e	f
MAIN		X	C	0201	S4-270-500-500 CAP,CER 27PF-50V	a	b	c	d	e	f
MAIN		X	C	0202	S4-180-500-500 CAP,CER 18P-50	a	b	c	d	e	f
MAIN		O	C	0203	87-010-400-010 CAP,E 0.47-50V	a	b	c	d	e	f
MAIN		O	C	0204	87-010-404-010 CAP,E 4.7-50V	a	b	c	d	e	f
MAIN		X	C	0205	S0-203-800-500 CAP,CER 0.02U-50V	a	b	c	d	e	f
MAIN		X	C	0206	87-010-053-810 CAP,E 1-50V	a	b	c	d	e	f
MAIN		X	C	0207	87-010-053-810 CAP,E 1-50V	a	b	c	d	e	f
MAIN		X	C	0208	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN		X	C	0209	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN		X	C	0210	87-010-053-810 CAP,E 1-50V	a	b	c	d	e	f

ELECTRICAL PARTS LIST -2/7

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				CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	O C	0211	87-010-544-010 CAP,E 0.1-50V	a	b	c	d	e	f
MAIN	O C	0212	87-010-544-010 CAP,E 0.1-50V	a	b	c	d	e	f
MAIN	O C	0213	87-010-545-010 CAP,E 0.22-50V	a	b	c	d	e	f
MAIN	X C	0214	S0-102-800-500 CAP,CER 0.001U-50V	a	b	c	d	e	f
MAIN	X C	0215	S4-408-300-500 CAP,CER 4PF-50V	a	b	c	d	e	f
MAIN	X C	0216	S4-300-500-500 CAP,CER 30PF-50V	a	b	c	d	e	.
MAIN	X C	0216	S8-120-500-500 CAP,CER 12PF-50V	.	.	.	.	.	f
MAIN	X C	0217	S4-200-500-500 CAP,CER 20P-50V	a	b	c	d	e	.
MAIN	X C	0218	S0-203-800-500 CAP,CER 0.02U-50V	a	b	c	d	e	f
MAIN	X C	0220	S4-131-500-500 CAP,CER 130PF-50V	a	b	c	d	e	f
MAIN	X C	0221	S4-240-500-500 CAP,CER 24P-50V	a	b	c	d	e	f
MAIN	O C	0222	87-010-101-080 CAP,E 220-16V	a	b	c	d	.	f
MAIN	O C	0223	87-010-101-080 CAP,E 220-16V	a	b	c	d	.	f
MAIN	X C	0224	S4-150-500-500 CAP,CER 15PF-50V	a	b	c	d	e	f
MAIN	X C	0225	S0-203-800-500 CAP,CER 0.02U-50V	a	b	c	d	e	f
MAIN	X C	0226	S0-203-800-500 CAP,CER 0.02U-50V	a	b	c	d	e	f
MAIN	X C	0227	87-010-053-810 CAP,E 1-50V	a	b	c	d	e	f
MAIN	X C	0228	S0-203-800-500 CAP,CER 0.02U-50V	a	b	c	d	e	f
MAIN	X C	0229	S0-104-800-160 CAP,CER 0.1-16V	a	b	c	d	e	f
MAIN	O C	0230	87-010-248-080 CAP,E 220-10V	a	b	c	d	e	f

				CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	X C	0231	S0-104-800-160 CAP,CER 0.1-16V	a	b	c	d	e	f
MAIN	X C	0233	S0-183-101-000 CAP,M 0.018-100V	a	b	c	d	e	f
MAIN	X C	0234	S0-183-101-000 CAP,M 0.018-100V	a	b	c	d	e	f
MAIN	O C	0322	87-A10-216-080 CAP,E 47-25V	a	b	c	d	e	f
MAIN	O C	0323	87-010-038-010 CAP,E 22-25V	a	b	c	d	e	f
MAIN	O C	0330	87-010-045-010 CAP,E 100-25V	a	b	c	d	e	f
MAIN	O C	0390	87-010-404-010 CAP,E 4.7-50V	a	b	c	d	e	f
MAIN	O C	0392	87-010-404-010 CAP,E 4.7-50V	a	b	c	d	e	f
MAIN	X C	0401	S0-104-800-160 CAP,CER 0.1-16V	a	b	c	d	e	f
MAIN	O C	0402	S0-333-101-000 CAP,M 0.033UF-100V	a	b	c	d	e	f
MAIN	X C	0403	S0-331-100-500 CAP,CER 330PF-50V	a	b	c	d	e	f
MAIN	O C	0404	87-010-035-010 CAP,E 2.2-50V	a	b	c	d	e	f
MAIN	X C	0405	88-266-680-810 CAP,0.0027UF-25V	a	b	c	d	e	f
MAIN	O C	0406	S0-473-101-000 CAP,M 0.047UF-100V	a	b	c	d	e	f
MAIN	O C	0407	S0-224-101-000 CAP,M 0.22UF-100V	a	b	c	d	e	f
MAIN	O C	0408	S0-224-101-000 CAP,M 0.22UF-100V	a	b	c	d	e	f
MAIN	X C	0409	S0-102-800-500 CAP,CER 0.001U-50V	a	b	c	d	e	f
MAIN	O C	0410	S0-104-101-000 CAP,M 0.1UF-100V	a	b	c	d	e	f
MAIN	O C	0411	S0-333-101-000 CAP,M 0.033UF-100V	a	b	c	d	e	f
MAIN	X C	0412	S0-332-800-500 CAP,CER 0.0033UF-50V	a	b	c	d	e	f

				CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	O C	0413	87-010-545-010 CAP,E 0.22-50V	a	b	c	d	e	f
MAIN	X C	0414	S0-101-100-500 CAP,CER 100P-50V	a	b	c	d	e	f
MAIN	X C	0415	S0-332-800-500 CAP,CER 0.0033UF-50V	a	b	c	d	e	f
MAIN	O C	0416	87-010-544-010 CAP,E 0.1-50V	a	b	c	d	e	f
MAIN	O C	0417	87-010-037-010 CAP,E 10-50V	a	b	c	d	e	f
MAIN	O C	0418	S0-104-101-000 CAP,M 0.1UF-100V	a	b	c	d	e	f
MAIN	X C	0420	S4-220-500-500 CAP,CER 22PF-50V	a	b	c	d	e	f
MAIN	X C	0421	S0-103-101-000 CAP,M 0.01UF-100V	a	b	c	d	e	f
MAIN	O C	0423	87-010-037-010 CAP,E 10-50V	a	b	c	d	e	f
MAIN	O C	0424	87-010-037-010 CAP,E 10-50V	a	b	c	d	e	f
MAIN	X C	0425	S0-682-101-000 CAP,M 0.0068-100V	a	b	c	d	e	f
MAIN	O C	0426	S0-473-101-000 CAP,M 0.047UF-100V	a	b	c	d	e	f
MAIN	O C	0427	87-010-546-080 CAP,E 0.33-50V	a	b	c	d	e	f
MAIN	X C	0428	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN	O C	0429	87-010-263-080 CAP,E 100-10V	a	b	c	d	e	f
MAIN	O C	0430	87-A10-216-080 CAP,E 47-25V	a	b	c	d	e	f
MAIN	X C	0431	S0-102-800-500 CAP,CER 0.001U-50V	a	b	c	d	e	f
MAIN	O C	0432	87-010-263-080 CAP,E 100-10V	a	b	c	d	e	f
MAIN	X C	0433	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN	X C	0434	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f

				CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	O C	0435	87-010-263-080 CAP,E 100-10V	a	b	c	d	e	f
MAIN	X C	0436	S0-203-800-500 CAP,CER 0.02U-50V	a	b	c	d	e	f
MAIN	O C	0437	87-010-248-080 CAP,E 220-10V	a	b	c	d	e	f
MAIN	X C	0438	S0-104-800-160 CAP,CER 0.1-16V	a	b	c	d	e	f
MAIN	O C	0439	87-010-037-010 CAP,E 10-50V	a	b	c	d	e	f
MAIN	O C	0440	87-010-237-010 CAP,E 1000-16V	a	b	c	d	e	f
MAIN	O C	0441	87-010-221-010 CAP,E 470-10V	a	b	c	d	e	f
MAIN	X C	0442	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN	X C	0443	S4-300-500-500 CAP,CER 30PF-50V	a	b	c	d	e	f
MAIN	X C	0444	S4-300-500-500 CAP,CER 30PF-50V	a	b	c	d	e	f
MAIN	X C	0445	S0-104-800-160 CAP,CER 0.1-16V	a	b	c	d	e	f
MAIN	O C	0446	S0-224-101-000 CAP,M 0.22UF-100V	a	b	c	d	e	f
MAIN	X C	0447	S0-104-800-160 CAP,CER 0.1-16V	a	b	c	d	e	f
MAIN	X C	0448	S0-101-100-500 CAP,CER 100P-50V	a	b	c	d	e	f
MAIN	X C	0449	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN	O C	0450	87-010-263-080 CAP,E 100-10V	a	b	c	d	e	f
MAIN	O C	0451	87-010-375-010 CAP,E 330-10V	a	b	c	d	e	f
MAIN	X C	0452	87-010-053-810 CAP,E 1-50V	a	b	c	d	e	f
MAIN	O C	0455	87-010-403-010 CAP,E 3.3-50V	a	b	c	d	e	f
MAIN	O C	0456	87-010-403-010 CAP,E 3.3-50V	a	b	c	d	e	f

ELECTRICAL PARTS LIST -3/7

! = ⚠SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

				CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	X C	0457	S0-471-100-510 CAP,CER 470PF-50V	a	b	c	d	e	f
MAIN	X C	0458	S0-471-100-510 CAP,CER 470PF-50V	a	b	c	d	e	f
MAIN	X C	0459	S0-681-100-500 CAP,CER 680PF-50V	a	b	c	d	e	f
MAIN	O C	0460	87-010-038-010 CAP,E 22-25V	a	b	c	d	e	f
MAIN	X C	0462	S0-104-800-160 CAP,CER 0.1-16V	a	b	c	d	e	f
MAIN	O C	0463	87-010-221-010 CAP,E 470-10V	a	b	c	d	e	f
MAIN	X C	0464	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN	X C	0465	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN	X C	0468	S0-102-800-500 CAP,CER 0.001U-50V	a	b	c	d	e	f
MAIN	X C	0469	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN	X C	0473	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN	X C	0474	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN	X C	0475	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN	X C	0476	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN	X C	0477	S0-102-800-500 CAP,CER 0.001U-50V	a	b	c	d	e	f
MAIN	O C	0478	87-010-037-010 CAP,E 10-50V	a	b	c	d	e	f
MAIN	X C	0479	S0-102-800-500 CAP,CER 0.001U-50V	a	b	c	d	e	f
MAIN	X C	0480	S0-104-800-160 CAP,CER 0.1-16V	a	b	c	d	e	f
MAIN	X C	0481	S0-102-800-500 CAP,CER 0.001U-50V	a	b	c	d	e	f
MAIN	O C	0482	87-010-248-080 CAP,E 220-10V	a	b	c	d	e	f

				CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	X C	0483	S0-104-800-160 CAP,CER 0.1-16V	a	b	c	d	e	f
MAIN	X C	0484	S0-104-800-160 CAP,CER 0.1-16V	a	b	c	d	e	f
MAIN	X C	0485	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN	O C	0486	S0-473-101-000 CAP,M 0.047UF-100V	a	b	c	d	e	f
MAIN	O C	0487	S0-473-101-000 CAP,M 0.047UF-100V	a	b	c	d	e	f
MAIN	O C	0801	S0-102-101-000 CAP,M 0.001UF-100V	a	.	c	d	.	f
MAIN	X C	0801	S0-222-101-000 CAP,M 0.0022UF-100V	.	b	.	.	e	.
MAIN	O C	0802	S0-102-101-000 CAP,M 0.001UF-100V	a	.	c	d	.	f
MAIN	X C	0802	S0-222-101-000 CAP,M 0.0022UF-100V	.	b	.	.	e	.
MAIN	O C	0805	87-010-544-010 CAP,E 0.1-50V	a	.	c	d	.	f
MAIN	X C	0805	87-010-053-810 CAP,E 1-50V	.	b	.	.	e	.
MAIN	O C	0806	87-010-544-010 CAP,E 0.1-50V	a	.	c	d	.	f
MAIN	X C	0806	87-010-053-810 CAP,E 1-50V	.	b	.	.	e	.
MAIN	X C	0807	S0-471-100-510 CAP,CER 470PF-50V	a	b	c	d	e	f
MAIN	X C	0808	S0-471-100-510 CAP,CER 470PF-50V	a	b	c	d	e	f
MAIN	O C	0809	87-010-038-010 CAP,E 22-25V	a	.	c	d	.	f
MAIN	O C	0809	87-A10-216-080 CAP,E 47-25V	.	b	.	.	e	.
MAIN	O C	0810	87-010-038-010 CAP,E 22-25V	a	.	c	d	.	f
MAIN	O C	0810	87-A10-216-080 CAP,E 47-25V	.	b	.	.	e	.
MAIN	O C	0811	87-010-112-010 CAP,E 100-16V	a	b	c	d	e	f

				CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	O C	0812	87-010-112-010 CAP,E 100-16V	a	b	c	d	e	f
MAIN	O C	0813	S0-331-002-5C0 CAP,E 330-25V	a	.	c	d	.	f
MAIN	O C	0813	87-010-101-080 CAP,E 220-16V	.	b	.	.	e	.
MAIN	O C	0814	S0-331-002-5C0 CAP,E 330-25V	a	.	c	d	.	f
MAIN	O C	0814	87-010-101-080 CAP,E 220-16V	.	b	.	.	e	.
MAIN	O C	0815	S0-224-101-000 CAP,M 0.22UF-100V	a	b	c	d	e	f
MAIN	O C	0816	S0-224-101-000 CAP,M 0.22UF-100V	a	b	c	d	e	f
MAIN	O C	0817	S0-331-002-5C0 CAP,E 330-25V	a	b	c	d	e	f
MAIN	O C	0818	87-010-387-080 CAP,E 470-25V	a	b	c	d	e	f
MAIN	O C	0819	87-010-035-010 CAP,E 2.2-50V	a	b	c	d	e	f
MAIN	O C	0820	87-010-388-010 CAP,E 1000-25V	a	b	c	d	e	f
MAIN	O C	0824	87-010-546-080 CAP,E 0.33-50V	a	.	c	d	.	f
MAIN	X C	0824	87-010-053-810 CAP,E 1-50V	.	b	.	.	e	.
MAIN	O C	0828	87-010-546-080 CAP,E 0.33-50V	a	.	c	d	.	f
MAIN	X C	0828	87-010-053-810 CAP,E 1-50V	.	b	.	.	e	.
MAIN	O C	0829	87-010-546-080 CAP,E 0.33-50V	a	.	c	d	.	f
MAIN	X C	0829	87-010-053-810 CAP,E 1-50V	.	b	.	.	e	.
MAIN	O C	0856	87-010-053-810 CAP,E 1-50V	a	b	c	d	e	f
MAIN	O C	0858	87-010-546-080 CAP,E 0.33-50V	a	.	c	d	.	f
MAIN	X C	0858	87-010-053-810 CAP,E 1-50V	.	b	.	.	e	.

				CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	O C	0859	87-010-546-080 CAP,E 0.33-50V	a	.	c	d	.	f
MAIN	X C	0859	87-010-053-810 CAP,E 1-50V	.	b	.	.	e	.
MAIN	O C	0860	87-010-403-010 CAP,E 3.3-50V	a	b	c	d	e	f
MAIN	O C	0872	87-010-112-010 CAP,E 100-16V	a	b	c	d	e	f
MAIN	O C	0874	87-010-546-080 CAP,E 0.33-50V	a	.	c	d	.	f
MAIN	X C	0874	87-010-053-810 CAP,E 1-50V	.	b	.	.	e	.
MAIN	O C	0877	S0-393-101-000 (F004-039350-050) CAP,M 0.	a	.	c	d	.	f
MAIN	O C	0877	S0-473-101-000 CAP,M 0.047UF-100V	.	b	.	.	e	.
MAIN	O C	0878	S0-393-101-000 (F004-039350-050) CAP,M 0.	a	.	c	d	.	f
MAIN	O C	0878	S0-473-101-000 CAP,M 0.047UF-100V	.	b	.	.	e	.
MAIN	O C	0901	87-010-112-010 CAP,E 100-16V	a	b	c	d	e	f
MAIN	O C	0902	87-010-101-080 CAP,E 220-16V	a	b	c	d	e	f
MAIN	X C	0904	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN	X C	0905	S0-103-800-500 (F003-010380-025) CERAMIC CAP	a	b	c	d	e	f
MAIN	O C	C222	87-010-101-080 CAP,E 220-16V	.	.	.	.	e	.
MAIN	O CD	0402	S0-601-89B-010 HSG CD189-55-6B(C) PEC 2001H-	a	b	c	d	e	f
MAIN	O CF	0201	S0-004-650-020 CERAMIC FILTER LT-465B	a	b	c	d	e	f
MAIN	O CF	0202	S0-001-070-000 CER,FIL SFE-10.7MA5-M	a	b	c	d	e	f
MAIN	X CN	0301	S0-052-670-400 HEADER,MOLEX 4P	a	b	c	d	e	f
MAIN	O CN	0401	S0-061-161-600 FFC CONN SOCKET 16PINS P:1mm	a	b	c	d	e	f

ELECTRICAL PARTS LIST -4/7

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Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

			CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	O CN 0402	S0-206-682-000 HSG CD668R-2A JST PHR 2mm WIT	a	b	c	d	e	f
MAIN	O CN 0403	S2-001-WS0-800 CONN,8P #2001-WS-8	a	b	c	d	e	f
MAIN	O CN 0404	SP-HS0-200-200 HEADER CTL 2 PINS PHS-02 PITC	a	b	c	d	e	f
MAIN	O CN 0405	S2-001-WS0-900 CONN,9P #2001-WS-9	a	b	c	d	e	f
MAIN	O CN 0802	8B-CDC-659-010 CONN,4P #2507-WS-4	a	b	c	d	e	f
MAIN	X CN 0901	S0-052-670-300 HEADER,MOLEX 3P	a	b	c	d	e	f
MAIN	O CON0302	SP-HS0-200-200 HEADER CTL 2 PINS PHS-02 PITC	a	b	c	d	e	f
MAIN	O CON0501	S0-423-152-500 HSG 2315-4C MOLEX 5264 w/300m	a	b	c	d	e	f
MAIN	O CON0801	S0-476-9C2-500 HSG 769C-4 PINS MOLEX 5264 YE	a	b	c	d	e	f
MAIN	O D 0201	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
MAIN	O D 0202	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
MAIN	O D 0203	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
MAIN	O D 0204	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
MAIN	O D 0301	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
MAIN	S D 0401	S0-000-010-040 DIODE,GMB01/GMA01U	a	b	c	d	e	f
MAIN	O D 0402	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
MAIN	O D 0403	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
MAIN	O D 0404	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
MAIN	O D 0411	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
MAIN	O D 0418	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f

			CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	O D 0855	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
MAIN	O D 0856	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
MAIN	O D 0901	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
MAIN	O D 0903	87-A40-533-080 ZENER,MTZJ8.2B 1/2W	a	b	c	d	e	f
MAIN	O D 0904	82-135-799-010 DIODE,IN4148	a	b	c	d	e	f
MAIN	S DZ 0401	S0-100-331-210 ZENER BZX55C3V3 3.3V 1/2W	a	b	c	d	e	f
MAIN	O FFC0001	S1-601-401-010 FFC CABLE 16P	a	b	c	d	e	f
MAIN	S IC 0201	S8-321-110-010 IC TA2111N (TOSHIBA)	a	b	c	d	e	f
MAIN	S IC 0401	S1-092-510-000 IC,LA9251M	a	b	c	d	e	f
MAIN	S IC 0402	S7-178-600-030 IC,LC78602HNE-8612D	a	b	c	d	e	f
MAIN	S IC 0403	S1-065-410-000 IC,LA6541DLL	a	b	c	d	e	f
MAIN	O IC 0801	S8-382-270-000 IC,TA8227P	a	b	c	d	e	f
MAIN	O L 0202	SZ-CM2-661-010 FM COIL 4T,5mm,DIA:0.8mm (CS5	a	b	c	d	e	f
MAIN	O L 0203	S0-400-400-080 FM COIL,4T 4MM-0.8MM	a	b	c	d	e	.
MAIN	X L 0203	SZ-CM2-628-010 COIL,FM 4.5-5-0.8	.	.	.	.	.	f
MAIN	X L 0204	S0-300-400-080 FM,COIL 3T 4	a	b	c	d	e	.
MAIN	X L 0204	S0-400-450-080 FM,COIL 4T 4.5MM	.	.	.	.	.	f
MAIN	O L 0207	87-003-147-010 COIL,22UH	a	b	c	d	e	f
MAIN	O L 0208	87-005-730-080 INDUCTOR,10UH	a	b	c	d	e	f
MAIN	O L 0209	S1-101-231-200 COIL,AM4-120	a	b	c	d	e	f

			CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	O L 0401	87-005-196-080 INDUCTOR,10UH	a	b	c	d	e	f
MAIN	O L 0404	87-005-196-080 INDUCTOR,10UH	a	b	c	d	e	f
MAIN	O L 0405	87-005-196-080 INDUCTOR,10UH	a	b	c	d	e	f
MAIN	O PVC0001	S3-443-040-000 PVC,DF443DF04-B04 AM/FM	a	b	c	d	e	.
MAIN	O PVC0001	S3-443-040-010 PVC,DE443DB04-B04 AM/FM	.	.	.	.	.	f
MAIN	S Q 0401	S1-060-800-000 TR,2SA608N	a	b	c	d	e	f
MAIN	S Q 0402	S1-134-600-000 TR,2SA1346	a	b	c	d	e	f
MAIN	S Q 0403	S2-007-640-000 TR,2SB764D/E	a	b	c	d	e	f
MAIN	S Q 0404	S6-855-000-000 TR,3CA8550	a	b	c	d	e	f
MAIN	S Q 0405	S6-855-000-000 TR,3CA8550	a	b	c	d	e	f
MAIN	S Q 0408	S1-134-600-000 TR,2SA1346	a	b	c	d	e	f
MAIN	O Q 0801	S9-025-410-000 TR,2SK2541-T/2SK2541 (	a	b	c	d	e	f
MAIN	O Q 0802	S9-025-410-000 TR,2SK2541-T/2SK2541 (	a	b	c	d	e	f
MAIN	O Q 0803	S9-025-410-000 TR,2SK2541-T/2SK2541 (	a	b	c	d	e	f
MAIN	O Q 0804	S9-025-410-000 TR,2SK2541-T/2SK2541 (	a	b	c	d	e	f
MAIN	S Q 0807	89-318-154-080 TR,2SC1815GR	a	b	c	d	e	f
MAIN	S Q 0808	89-318-154-080 TR,2SC1815GR	a	b	c	d	e	f
MAIN	S Q 0851	S2-015-661-000 TR,B1566E (LIGHTNING)	a	b	c	d	e	f
MAIN	S Q 0852	S6-805-000-000 TR,3DA8050	a	b	c	d	e	f
MAIN	O Q 0901	S5-901-300-060 TR,9013G	a	b	.	.	e	.

			CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	S Q 0901	S5-901-300-070 TR,9013G/KTC	.	.	c	d	.	f
MAIN	S Q 0902	S6-901-200-000 TR,3CG9012	a	b	c	d	e	f
MAIN	X R 0201	S0-331-510-160 RES,330-1/16W (1	a	b	c	d	e	f
MAIN	X R 0202	S0-331-510-160 RES,330-1/16W (1	a	b	c	d	e	f
MAIN	X R 0203	S0-472-510-160 RES,4.7K-1/16W	a	b	c	d	e	f
MAIN	X R 0204	S0-472-510-160 RES,4.7K-1/16W	a	b	c	d	e	f
MAIN	X R 0205	S0-332-510-160 RES,3.3K-1/16W	a	b	c	d	e	f
MAIN	X R 0206	S0-332-510-160 RES,3.3K-1/16W	a	b	c	d	e	f
MAIN	X R 0207	S0-332-510-160 RES,3.3K-1/16W	a	b	c	d	e	f
MAIN	X R 0208	S0-331-510-160 RES,330-1/16W (1	a	b	c	d	e	f
MAIN	X R 0210	S0-568-510-160 RES,5.6-1/16W	a	b	c	d	.	f
MAIN	X R 0211	S0-104-510-160 RES,100K-1/16W (	a	b	c	d	e	f
MAIN	X R 0212	S0-104-510-160 RES,100K-1/16W (	a	b	c	d	e	f
MAIN	X R 0217	S0-103-510-160 RES,10K-1/16W (1	a	b	c	d	e	f
MAIN	X R 0218	S0-331-510-160 RES,330-1/16W (1	a	b	c	d	e	f
MAIN	X R 0225	S0-568-510-160 RES,5.6-1/16W	a	b	c	d	e	f
MAIN	X R 0314	S0-682-510-160 RES,6.8K-1/16W	a	b	c	d	e	f
MAIN	X R 0315	S0-103-510-160 RES,10K-1/16W (1	a	b	c	d	e	f
MAIN	X R 0316	S0-102-510-160 RES,1K-1/16W (1/	a	b	c	d	e	f
MAIN	X R 0317	S0-682-510-160 RES,6.8K-1/16W	a	b	c	d	e	f

ELECTRICAL PARTS LIST -5/7

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Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

			CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	X R	0323 S0-223-510-160 RES,22K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0336 S0-183-510-160 RES,18K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0343 S0-568-510-160 RES,5.6-1/16W	a	b	c	d	e	f
MAIN	X R	0344 S0-221-510-160 RES,220-1/16W	a	b	c	d	e	f
MAIN	X R	0390 S0-333-510-160 RES,33K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0397 S0-333-510-160 RES,33K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0401 S0-563-510-160 RES,56K-1/16W	a	b	c	d	e	f
MAIN	X R	0402 S0-563-510-160 RES,56K-1/16W	a	b	c	d	e	f
MAIN	X R	0403 S0-563-510-160 RES,56K-1/16W	a	b	c	d	e	f
MAIN	X R	0404 S0-563-510-160 RES,56K-1/16W	a	b	c	d	e	f
MAIN	X R	0405 S0-104-510-160 RES,100K-1/16W (	a	b	c	d	e	f
MAIN	X R	0406 S0-104-510-160 RES,100K-1/16W (	a	b	c	d	e	f
MAIN	X R	0407 S0-154-510-160 RES,150K-1/16W (	a	b	c	d	e	f
MAIN	X R	0408 S0-223-510-160 RES,22K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0409 S0-222-510-160 RES,2.2K-1/16W	a	b	c	d	e	f
MAIN	X R	0410 S0-561-510-160 RES,560-1/16W	a	b	c	d	e	f
MAIN	X R	0411 S0-393-510-160 RES,39K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0412 S0-183-510-160 RES,18K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0413 S0-103-510-160 RES,10K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0414 S0-104-510-160 RES,100K-1/16W (	a	b	c	d	e	f

			CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	X R	0416 S0-222-510-160 RES,2.2K-1/16W	a	b	c	d	e	f
MAIN	X R	0417 S0-273-510-160 RES,27K-1/16W	a	b	c	d	e	f
MAIN	X R	0418 S0-223-510-160 RES,22K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0419 S0-223-510-160 RES,22K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0420 S0-223-510-160 RES,22K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0421 S0-152-500-160 RES,1.5K-1/16W	a	b	c	d	e	f
MAIN	X R	0422 S0-273-510-160 RES,27K-1/16W	a	b	c	d	e	f
MAIN	X R	0424 S0-563-510-160 RES,56K-1/16W	a	b	c	d	e	f
MAIN	X R	0425 S0-563-510-160 RES,56K-1/16W	a	b	c	d	e	f
MAIN	X R	0426 S0-102-510-160 RES,1K-1/16W (1/	a	b	c	d	e	f
MAIN	X R	0427 S0-333-510-160 RES,33K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0428 S0-333-510-160 RES,33K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0429 S0-394-510-160 RES,390K-1/16W	a	b	c	d	e	f
MAIN	X R	0430 S0-153-510-160 RES,15K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0431 S0-224-510-160 RES,220K-1/16W	a	b	c	d	e	f
MAIN	X R	0432 S0-224-510-160 RES,220K-1/16W	a	b	c	d	e	f
MAIN	X R	0433 S0-392-510-160 RES,3.9K-1/16W (1/8W	a	b	c	d	e	f
MAIN	X R	0434 S0-682-510-160 RES,6.8K-1/16W	a	b	c	d	e	f
MAIN	X R	0435 S0-153-510-160 RES,15K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0436 S0-223-510-160 RES,22K-1/16W (1	a	b	c	d	e	f

			CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	X R	0437 S0-123-510-160 RES,12K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0438 S0-273-510-160 RES,27K-1/16W	a	b	c	d	e	f
MAIN	X R	0439 S0-331-510-160 RES,330-1/16W (1	a	b	c	d	e	f
MAIN	X R	0440 S0-331-510-160 RES,330-1/16W (1	a	b	c	d	e	f
MAIN	X R	0441 S0-472-510-160 RES,4.7K-1/16W	a	b	c	d	e	f
MAIN	X R	0442 S0-564-510-160 RES,560K-1/16W	a	b	c	d	e	f
MAIN	X R	0443 S0-101-510-160 RES,100-1/16W (1	a	b	c	d	e	f
MAIN	X R	0444 S0-220-510-160 RES,22-1/16W (1/	a	b	c	d	e	f
MAIN	X R	0445 S0-471-510-160 RES,470-1/16W	a	b	c	d	e	f
MAIN	X R	0446 S0-153-510-160 RES,15K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0447 S0-103-510-160 RES,10K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0448 S0-333-510-160 RES,33K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0449 S0-103-510-160 RES,10K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0450 S0-103-510-160 RES,10K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0451 S0-103-510-160 RES,10K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0452 S0-124-510-160 RES,120K-1/16W (	a	b	c	d	e	f
MAIN	X R	0453 S0-124-510-160 RES,120K-1/16W (	a	b	c	d	e	f
MAIN	X R	0457 S0-101-510-160 RES,100-1/16W (1	a	b	c	d	e	f
MAIN	X R	0458 S0-101-510-160 RES,100-1/16W (1	a	b	c	d	e	f
MAIN	X R	0459 S0-101-510-160 RES,100-1/16W (1	a	b	c	d	e	f

			CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN	X R	0460 S0-101-510-160 RES,100-1/16W (1	a	b	c	d	e	f
MAIN	X R	0461 S0-101-510-160 RES,100-1/16W (1	a	b	c	d	e	f
MAIN	X R	0462 S0-101-510-160 RES,100-1/16W (1	a	b	c	d	e	f
MAIN	X R	0463 S0-101-510-160 RES,100-1/16W (1	a	b	c	d	e	f
MAIN	X R	0464 S0-101-510-160 RES,100-1/16W (1	a	b	c	d	e	f
MAIN	X R	0465 S0-392-510-160 RES,3.9K-1/16W (1/8W	a	b	c	d	e	f
MAIN	X R	0466 S0-392-510-160 RES,3.9K-1/16W (1/8W	a	b	c	d	e	f
MAIN	X R	0468 S0-150-510-160 RES,15-1/6W	a	b	c	d	e	f
MAIN	X R	0470 S0-103-510-160 RES,10K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0473 S0-562-510-160 RES,5.6K-1/16W	a	b	c	d	e	f
MAIN	X R	0474 S0-223-510-160 RES,22K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0477 S0-473-510-160 RES,47K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0478 S0-271-510-160 RES,270-1/16W	a	b	c	d	e	f
MAIN	X R	0479 S0-100-510-160 RES,10-1/16W (1/	a	b	c	d	e	f
MAIN	X R	0480 S0-100-510-160 RES,10-1/16W (1/	a	b	c	d	e	f
MAIN	X R	0482 S0-102-510-160 RES,1K-1/16W (1/	a	b	c	d	e	f
MAIN	X R	0801 S0-332-510-160 RES,3.3K-1/16W	a	b	c	d	e	f
MAIN	X R	0802 S0-153-510-160 RES,15K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0803 S0-153-510-160 RES,15K-1/16W (1	a	b	c	d	e	f
MAIN	X R	0804 S0-332-510-160 RES,3.3K-1/16W	a	b	c	d	e	f

ELECTRICAL PARTS LIST -6/7

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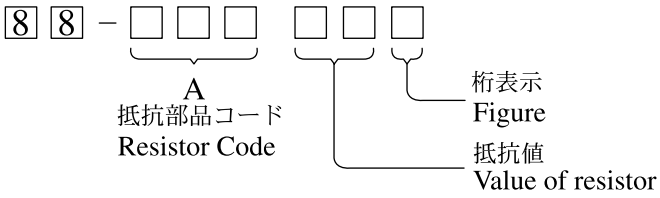
				CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN		X R	0805 S0-822-510-160 RES,8.2K-1/16W	a	.	c	d	.	f
MAIN		X R	0805 S0-102-510-160 RES,1K-1/16W (1/	.	b	.	.	e	.
MAIN		X R	0806 S0-822-510-160 RES,8.2K-1/16W	a	.	c	d	.	f
MAIN		X R	0806 S0-102-510-160 RES,1K-1/16W (1/	.	b	.	.	e	.
MAIN		X R	0807 S0-102-510-160 RES,1K-1/16W (1/	a	b	c	d	e	f
MAIN		X R	0808 S0-102-510-160 RES,1K-1/16W (1/	a	b	c	d	e	f
MAIN		X R	0809 S0-101-510-160 RES,100-1/16W (1	a	b	c	d	e	f
MAIN		X R	0810 S0-101-510-160 RES,100-1/16W (1	a	b	c	d	e	f
MAIN		X R	0813 S0-102-510-160 RES,1K-1/16W (1/	a	b	c	d	e	f
MAIN		X R	0815 S0-228-507-140 RES,2.2-1/4W	.	.	c	d	.	f
MAIN		X R	0816 S0-228-507-140 RES,2.2-1/4W	.	.	c	d	.	f
MAIN		X R	0821 S0-104-510-160 RES,100K-1/16W (	a	b	c	d	e	f
MAIN		X R	0822 S0-104-510-160 RES,100K-1/16W (	a	b	c	d	e	f
MAIN		X R	0825 S0-682-510-160 RES,6.8K-1/16W	a	.	c	d	.	f
MAIN		X R	0825 S0-332-510-160 RES,3.3K-1/16W	.	b	.	.	e	.
MAIN		X R	0826 S0-103-510-160 RES,10K-1/16W (1	a	b	c	d	e	f
MAIN		X R	0828 S0-103-510-160 RES,10K-1/16W (1	a	b	c	d	e	f
MAIN		X R	0829 S0-102-510-160 RES,1K-1/16W (1/	a	b	c	d	e	f
MAIN		X R	0830 S0-102-510-160 RES,1K-1/16W (1/	a	b	c	d	e	f
MAIN		X R	0848 S0-223-510-160 RES,22K-1/16W (1	a	b	c	d	e	f
				CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN		X R	0849 S0-223-510-160 RES,22K-1/16W (1	a	b	c	d	e	f
MAIN		X R	0851 S0-103-510-160 RES,10K-1/16W (1	a	b	c	d	e	f
MAIN		X R	0852 S0-471-510-160 RES,470-1/16W	a	b	c	d	e	f
MAIN		X R	0853 S0-682-510-160 RES,6.8K-1/16W	a	b	c	d	e	f
MAIN		X R	0854 S0-561-510-160 RES,560-1/16W	a	b	c	d	e	f
MAIN		X R	0855 S0-104-510-160 RES,100K-1/16W (	a	b	c	d	e	f
MAIN		X R	0856 S0-104-510-160 RES,100K-1/16W (	a	b	c	d	e	f
MAIN		X R	0857 S0-473-510-160 RES,47K-1/16W (1	a	b	c	d	e	f
MAIN		X R	0858 S0-473-510-160 RES,47K-1/16W (1	a	b	c	d	e	f
MAIN		X R	0859 S0-222-510-160 RES,2.2K-1/16W	a	b	c	d	e	f
MAIN		X R	0860 S0-222-510-160 RES,2.2K-1/16W	a	b	c	d	e	f
MAIN		X R	0861 S0-152-500-160 RES,1.5K-1/16W	a	.	c	d	.	f
MAIN		X R	0861 S0-102-510-160 RES,1K-1/16W (1/	.	b	.	.	e	.
MAIN		X R	0862 S0-152-500-160 RES,1.5K-1/16W	a	.	c	d	.	f
MAIN		X R	0862 S0-102-510-160 RES,1K-1/16W (1/	.	b	.	.	e	.
MAIN		X R	0866 S0-682-510-160 RES,6.8K-1/16W	a	.	c	d	.	f
MAIN		X R	0866 S0-332-510-160 RES,3.3K-1/16W	.	b	.	.	e	.
MAIN		X R	0867 S0-152-500-160 RES,1.5K-1/16W	a	.	c	d	.	f
MAIN		X R	0867 S0-392-510-160 RES,3.9K-1/16W (1/8W	.	b	.	.	e	.
MAIN		X R	0868 S0-152-500-160 RES,1.5K-1/16W	a	.	c	d	.	f
				CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
MAIN		X R	0868 S0-392-510-160 RES,3.9K-1/16W (1/8W	.	b	.	.	e	.
MAIN		X R	0872 S0-471-510-160 RES,470-1/16W	a	b	c	d	e	f
MAIN		X R	0901 S0-471-510-160 RES,470-1/16W	a	b	c	d	e	f
MAIN		X R	0902 S0-103-510-160 RES,10K-1/16W (1	a	b	c	d	e	f
MAIN		X R	0903 S0-472-510-160 RES,4.7K-1/16W	a	b	c	d	e	f
MAIN		X R	0904 S0-471-510-160 RES,470-1/16W	a	b	.	.	e	.
MAIN		X R	0904 S0-681-510-160 RES,680-1/16W (1	.	.	c	d	.	f
MAIN		X R	0906 S0-221-510-160 RES,220-1/16W	a	b	c	d	e	f
MAIN		O	SPK0001 S4-080-020-150 SPK,8OHM 2W	a	.	c	d	.	.
MAIN		O	SPK0001 S4-080-020-140 SPK00004"008OHM0002W w/RED	.	b	.	.	e	f
MAIN		O	SPK0002 S4-080-020-150 SPK,8OHM 2W	a	.	c	d	.	.
MAIN		O	SPK0002 S4-080-020-140 SPK00004"008OHM0002W w/RED	.	b	.	.	e	f
MAIN		O	SW 0401 S0-011-200-020 LEAF SWITCH LSA-1120Y2	a	b	c	d	e	f
MAIN		O	SW 0801 S6-400-610-000 SW,SLIDE 6P4T	a	b	c	d	e	f
MAIN		O	T 0201 S0-110-300-100 IFT,1A1103R B	a	b	c	d	e	f
MAIN		O	T 0202 S0-022-400-100 IFT,4A-224R,10mm	a	b	c	.	e	f
MAIN		O	T 0203 S0-024-700-100 IFT,A247R(B) 10MM	a	b	c	d	e	f
MAIN		O	VR 0801 SD-165-031-020 RES,VARIABLE 50KA	a	b	c	d	e	f
MAIN		O	X 0401 S0-016-930-000 CER,RESO	a	b	c	d	e	f
RECTIFIER		X C	0601 S0-203-800-500 CAP,CER 0.02U-50V	a	b	c	d	e	f
				CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
RECTIFIER		X C	0602 S0-203-800-500 CAP,CER 0.02U-50V	a	b	c	d	e	f
RECTIFIER		X C	0603 S0-203-800-500 CAP,CER 0.02U-50V	a	b	c	d	e	f
RECTIFIER		X C	0604 S0-203-800-500 CAP,CER 0.02U-50V	a	b	c	d	e	f
RECTIFIER		O C	0605 87-010-388-010 CAP,E 1000-25V	a	b	c	d	e	f
RECTIFIER		X C	0606 S0-203-800-500 CAP,CER 0.02U-50V	a	b	c	d	e	f
RECTIFIER		O	CNH0852 S0-302-68C-000 HSG CD268-3B(C) 2507H-3	a	b	c	d	e	f
RECTIFIER		O D	0601 82-596-799-010 DI,1N4001B	a	b	c	d	e	f
RECTIFIER		O D	0602 82-596-799-010 DI,1N4001B	a	b	c	d	e	f
RECTIFIER		O D	0603 82-596-799-010 DI,1N4001B	a	b	c	d	e	f
RECTIFIER		O D	0604 82-596-799-010 DI,1N4001B	a	b	c	d	e	f
RECTIFIER	!	O HP	0002 S2-201-000-070 AC SOCKET PSE27 DAIICHI 2.5A/	a	b	.	.	e	.
RECTIFIER	!	O HP	0002 87-A60-178-010 AC SOCKET PSE27	.	.	c	d	.	f
RECTIFIER	!	O PT	0001 S3-801-391-400 PT001WEI48/18&F&WEN& 230V:11.	a	b	c	d	e	f

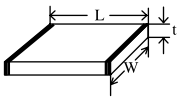
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

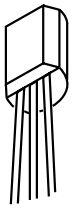
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

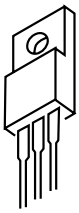
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード　：A Resistor Code：A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION-1/1



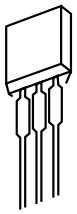
E C B

2SC1815GR
3CG9012
3DA8050
3CA8550
2SB764D/E
9013G



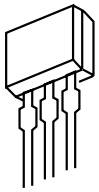
B C E

B1566E



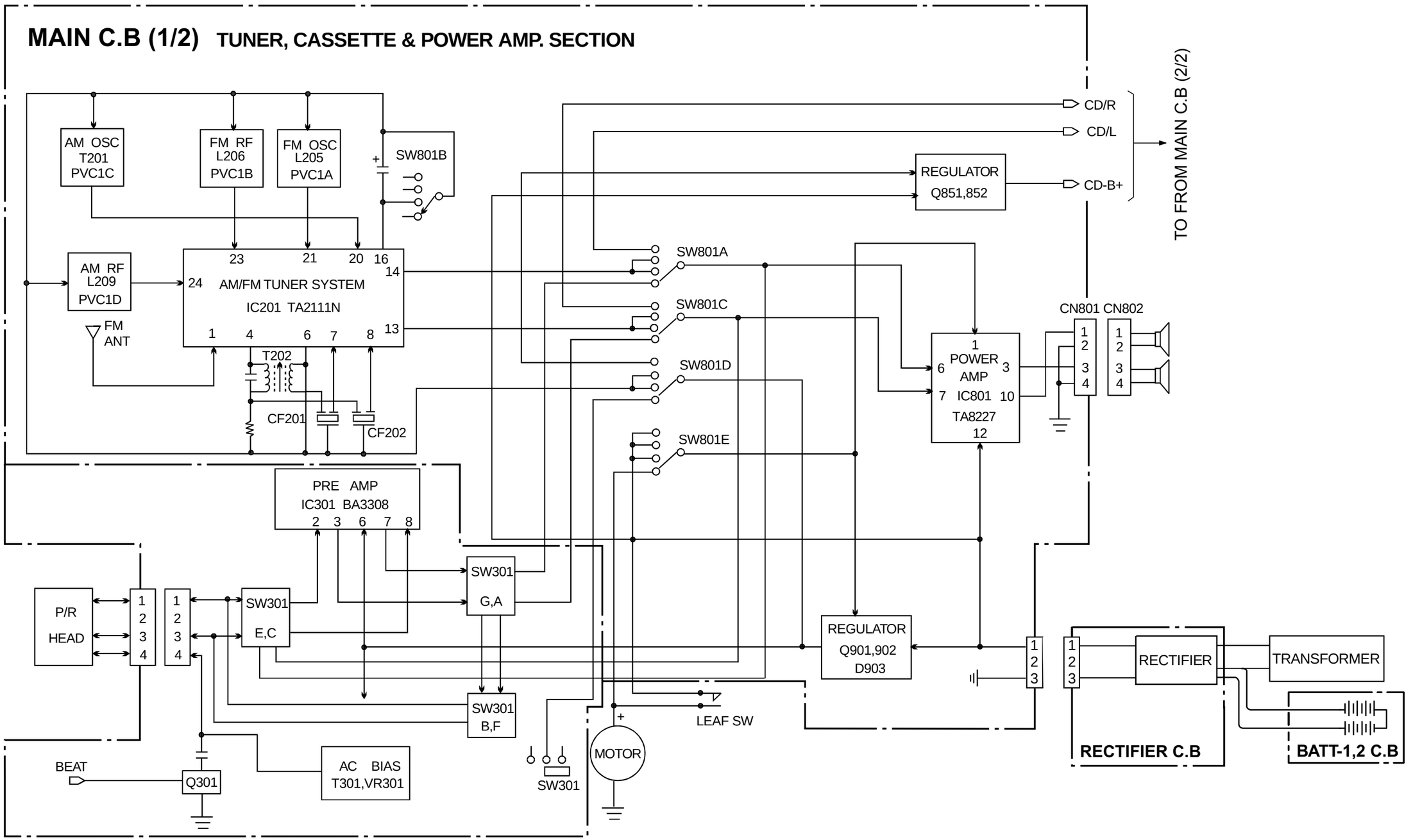
E C B

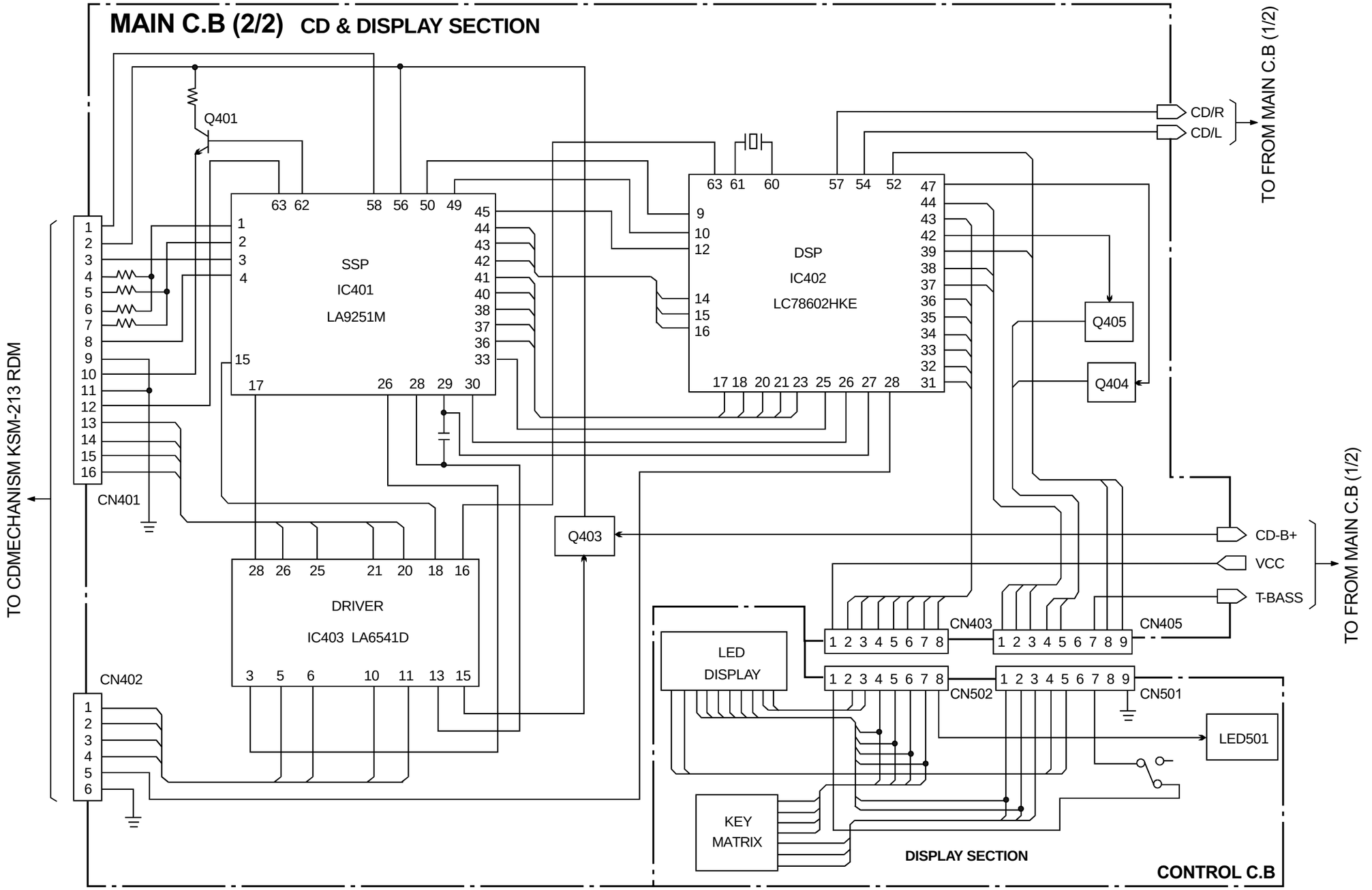
2SA1346



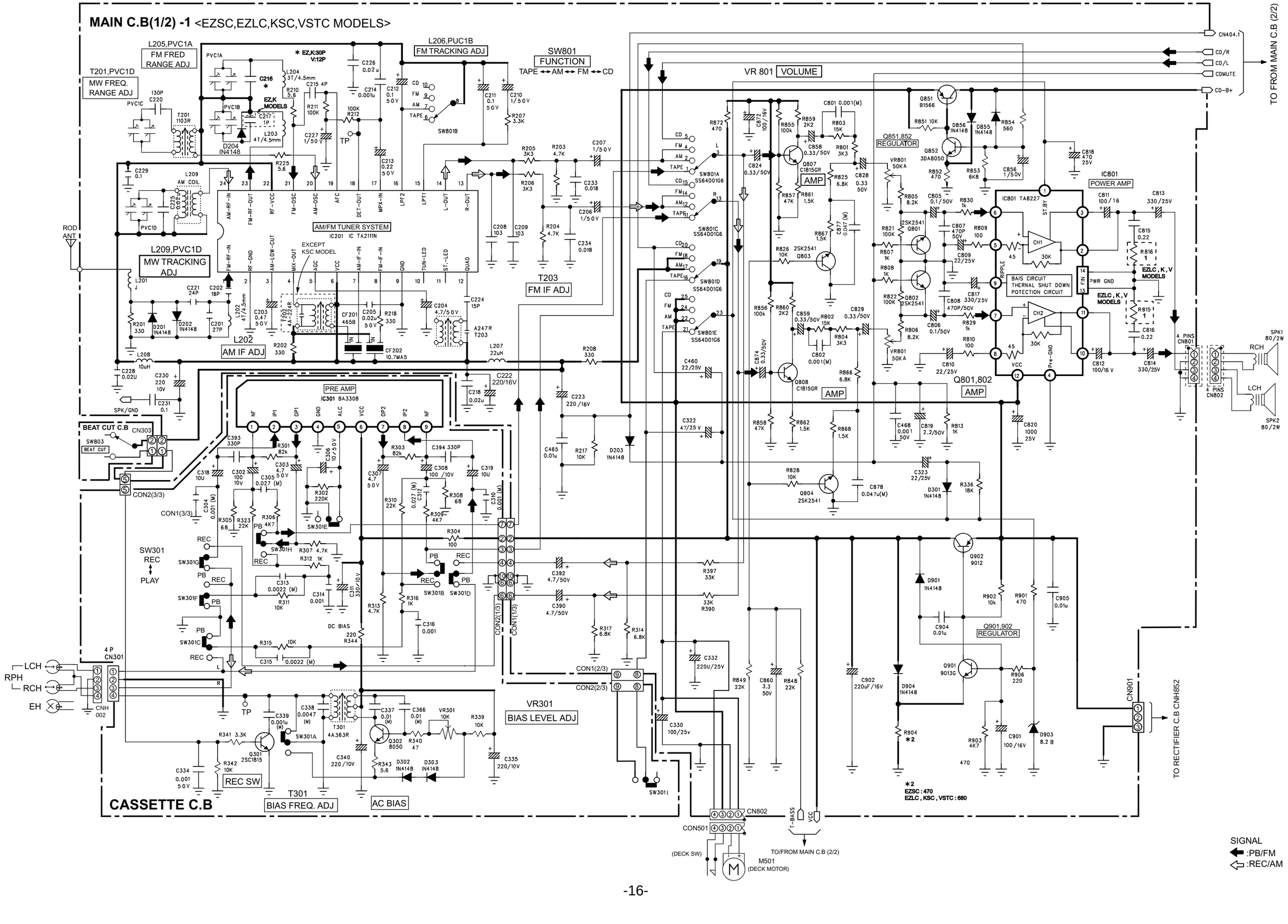
2SK2541

2SA608N

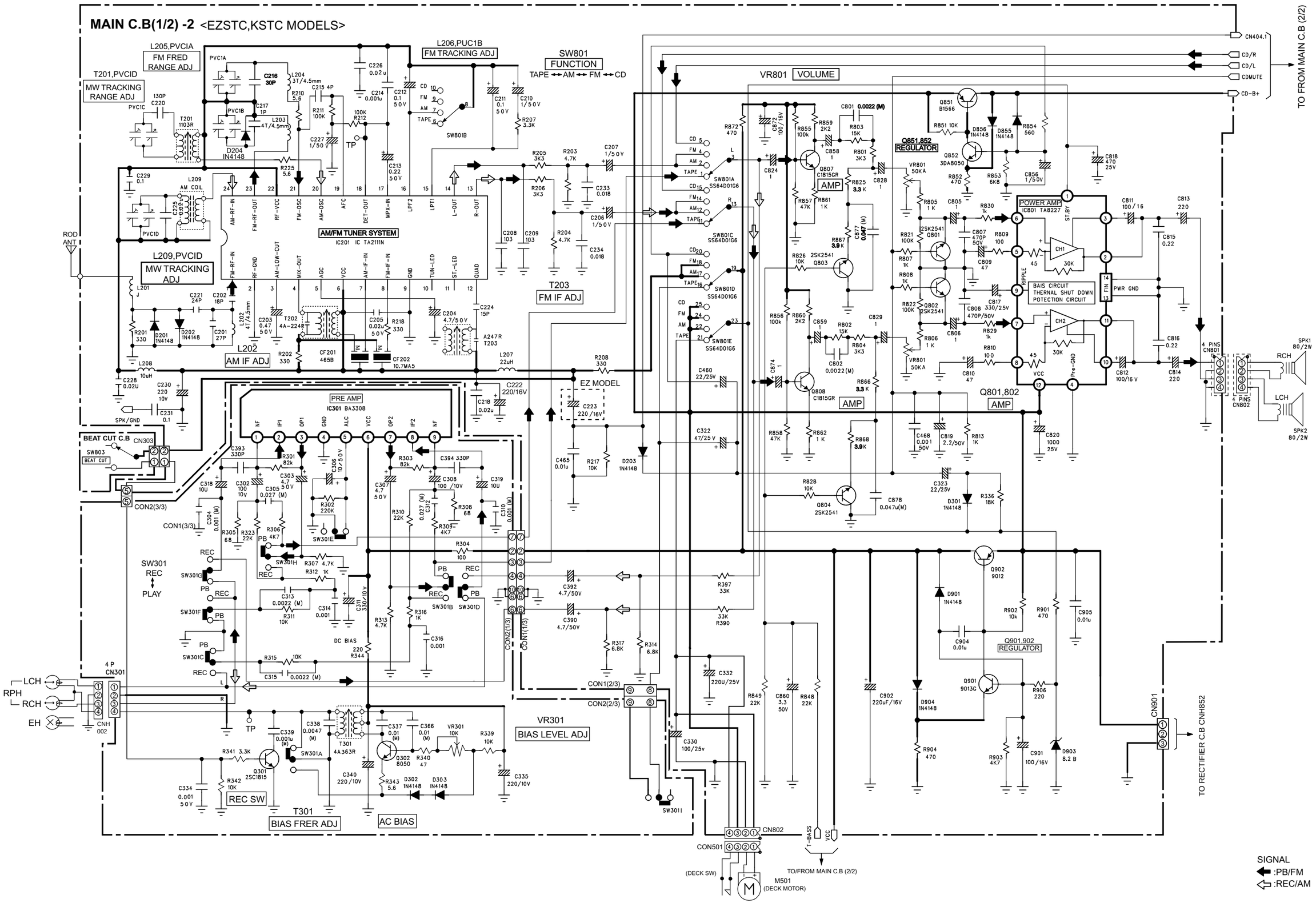

MAIN C.B (1/2) TUNER, CASSETTE & POWER AMP. SECTION
AM OSC T201 PVC1C
FM RF L206 PVC1B
FM OSC L205 PVC1A
SW801B
AM RF L209 PVC1D
FM ANT
AM/FM TUNER SYSTEM
IC201 TA2111N
T202
CF201
CF202
PRE AMP
IC301 BA3308
SW801A
SW801C
SW801D
SW801E
REGULATOR Q851,852
CD/R
CD/L
CD-B+
TO FROM MAIN C.B (2/2)
CN801 CN802
POWER AMP IC801 TA8227
SW301 G,A
SW301 E,C
SW301 B,F
P/R HEAD
REGULATOR Q901,902 D903
LEAF SW
MOTOR
SW301
BEAT
Q301
AC BIAS T301,VR301
RECTIFIER
TRANSFORMER
RECTIFIER C.B
BATT-1,2 C.B


MAIN C.B (2/2) CD & DISPLAY SECTION
TO CDMECHANISM KSM KSM-213 RDM
TO FROM MAIN C.B (1/2)
TO FROM MAIN C.B (1/2)
CD/R
CD/L
CD-B+
VCC
T-BASS
Q401
Q403
Q404
Q405
CN401
CN402
CN403
CN405
CN501
CN502
SSP
IC401
LA9251M
DSP
IC402
LC78602HKE
DRIVER
IC403 LA6541D
LED
DISPLAY
LED501
KEY
MATRIX
DISPLAY SECTION
CONTROL C.B

SCHEMATIC DIAGRAM -1/4 (MAIN -1/2) <EZSC, EZLC, KSC, VSTC MODELS>



SCHEMATIC DIAGRAM -2/4 (MAIN -1/2) <EZSTC, KSTC MODELS>



MAIN C.B (2/2)

CD MECHANISH
KSM-213 RDM

PICK UP ASSY

CN401
CON 16PINS

FFC001

FOCUS COIL
TRACKING COIL

SSP
IC401
LA9251M
RF SIGNAL/SERVO PROSESSOR

DSP
IC402
LC78602HNE
DIGITAL SIGNAL PROSESSOR

DRIVER
IC403 IC-LA6541D

TB SW

MUTE

CN402
MOTOR

SPINDOLE MOTOR
SLED MOTOR
SW1
INSIDE LIMIT SW

CD402

SW401
(CD DOOR SW)

CN404
HEADER CTL 2 PINS

CD404

CDMUTE
CD/R
AGND
CD/L

TO FROM MAIN C.B (1/2)

VCC
T-BASS

CD--B+
+8V

CN405
9 PINS

CN403
8 PINS

SIGNAL
:PB

TO CONTROL C.B
CN501

TO CONTROL C.B
CN502

MAIN C.B (PARTS SIDE)

RCH SPEAKER
LCH SPEAKER
RED
BLK
BLK
RED
4 1
CON801

M501 (DECK MOTOR)
(DECK SW)
RED
BLK
WHT
WHT
4 1
CON501

TO CD MECHANISM KSM-213 RDM
(FFC001)

TO CASSETTE C.B CON2

TO RECTIFIER C.B CNH852

EZLC,KSC,VSTC MODELS

R.SPK+
L.SPK+
B+
B-

EZLC KSC,VSTC MODELS

EXCEPT KSTC MODEL

IC401
IC402
IC403

EXCEPT KSC MODEL

MW COIL
BLK
GEN
RED
NATURE

FM ANT

EZ,K MODELS

CD404
2 1

SW401
(CD DOOR SW)

TO CONTROL C.B CN502

TO CONTROL C.B CN501

CN303 2 1

SW801
FUNCTION
TAPE ↔ AM ↔ FM ↔ CD

VR801
VOLUME
MIN
MAX

SW802
BEAT CUT

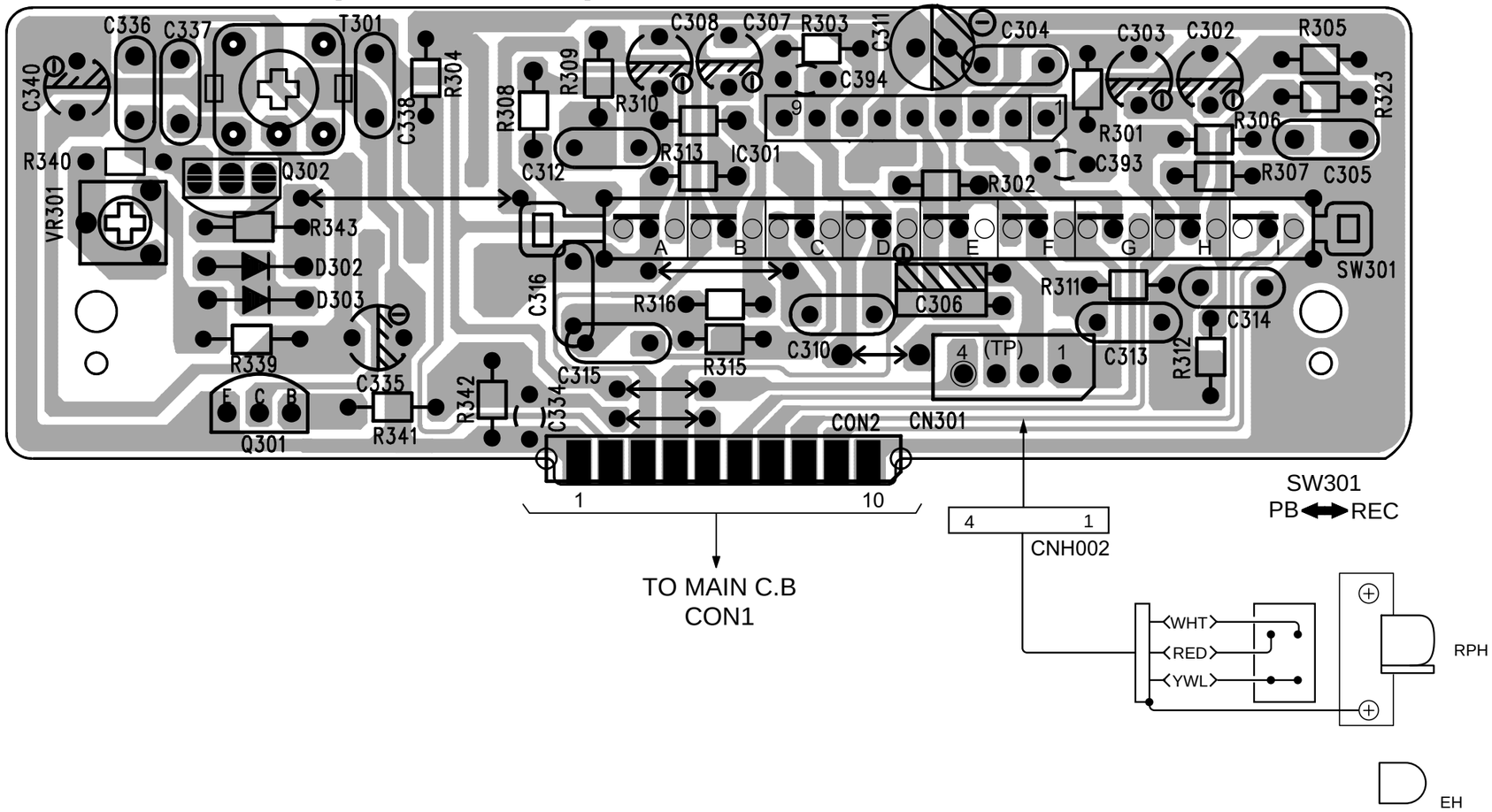
BEAT CUT C.B (PARTS SIDE)

NOTE:

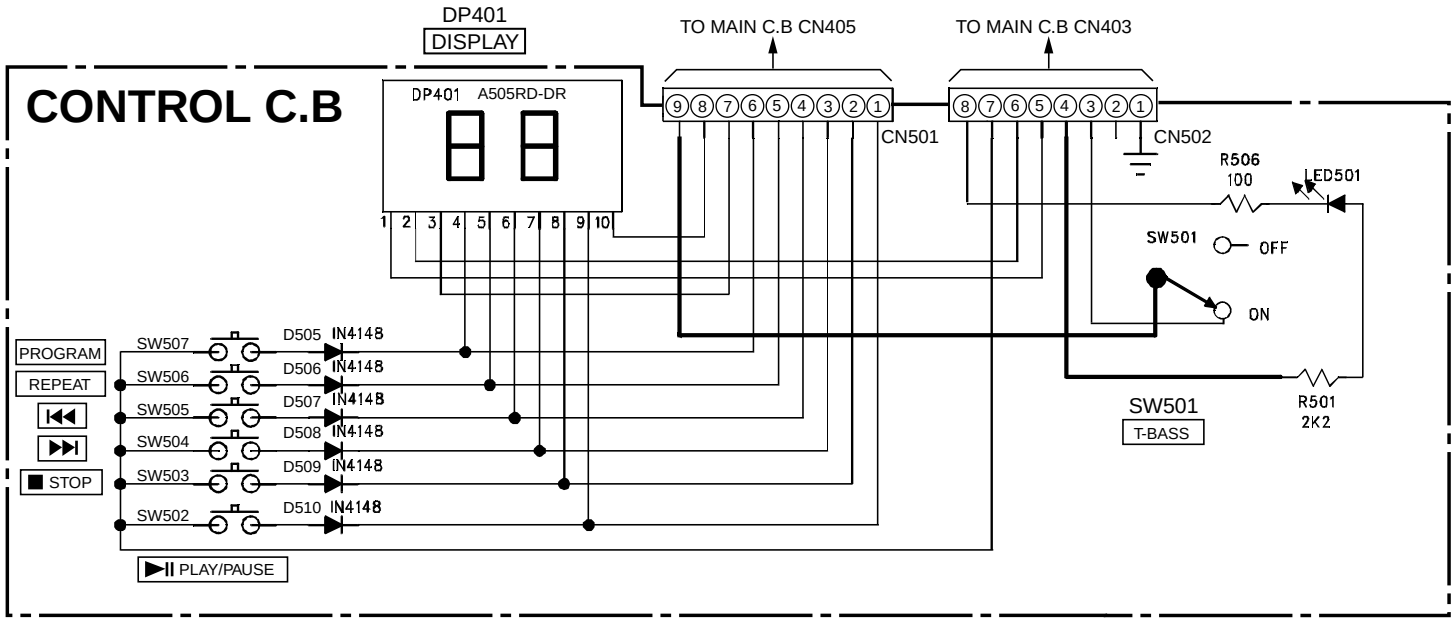
CXXX
CXXX
CXXX
CXXX
RXXX
LXXX
CXXX

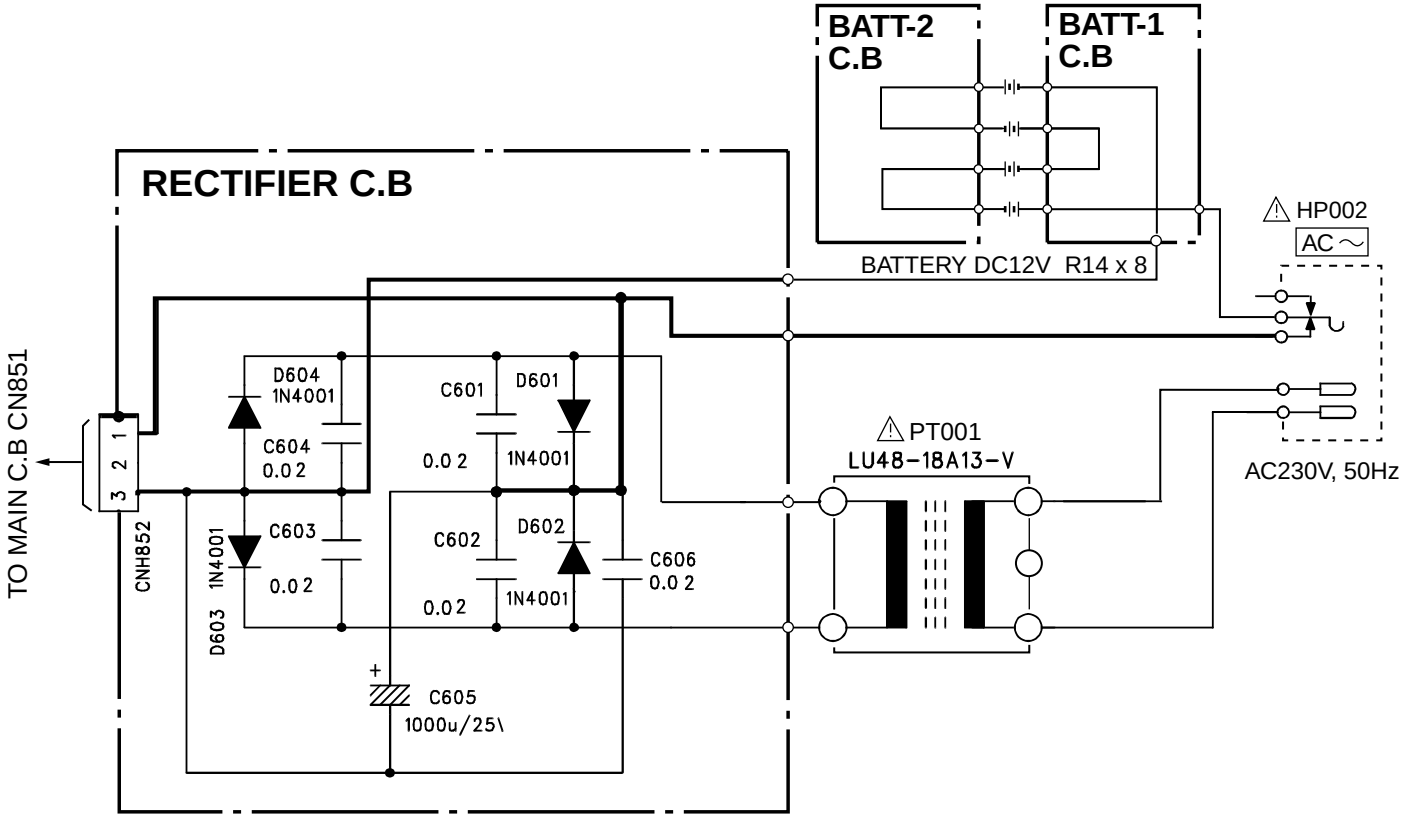
RXXX
RXXX
LXXX
CFXXX
DXXX
XXXX

CASSETTE C.B (PARTS SIDE)

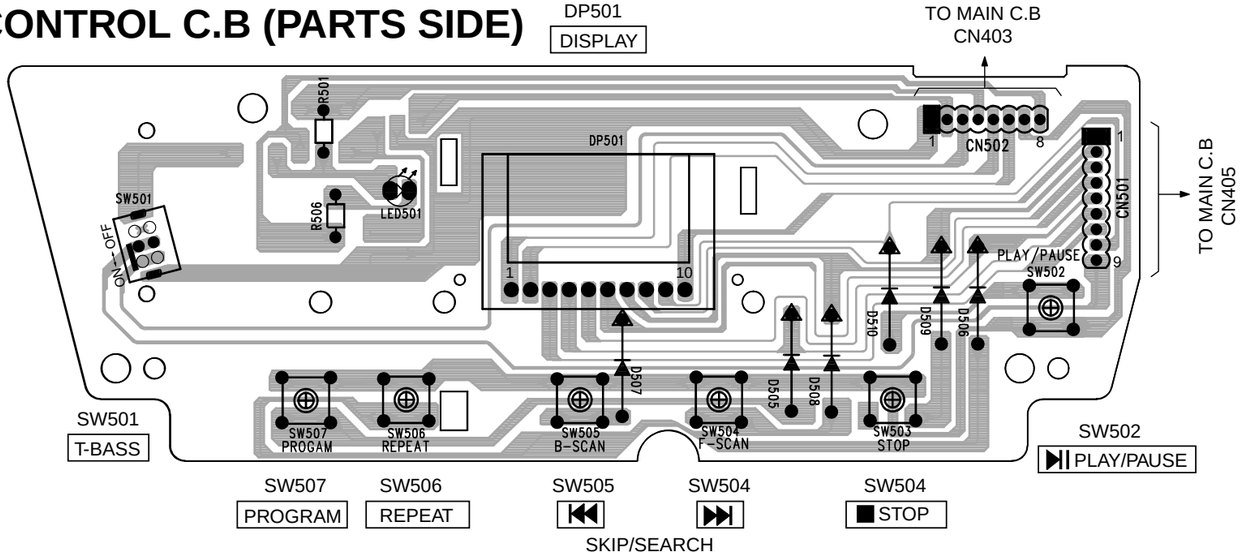


SCHEMATIC DIAGRAM -4/4 (CONTROL/RECTIFIER/BATT-1/BATT-2)

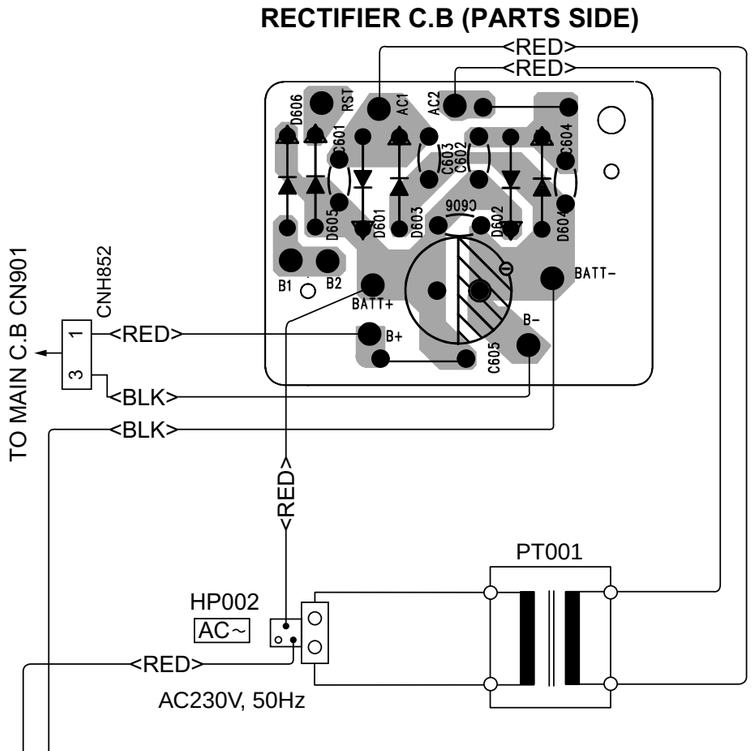




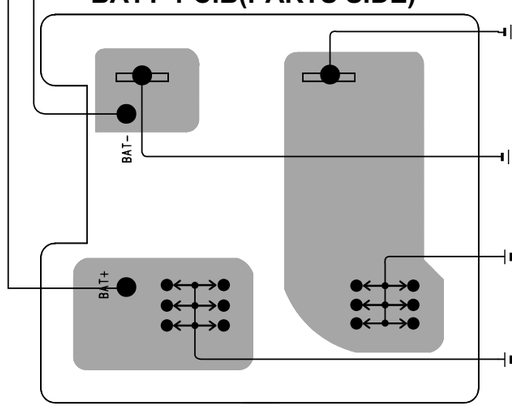
CONTROL C.B (PARTS SIDE)



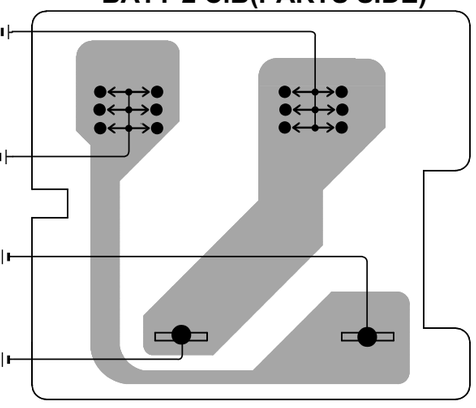
RECTIFIER C.B (PARTS SIDE)



BATT-1 C.B(PARTS SIDE)



BATT-2 C.B(PARTS SIDE)



BATTERY DC 12V R14×8

VOLTAGE CHART -1/2

TUNER

SET FM/AM TUNER ON ONE FREQUENCY

IC201 AM

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
AM	0	0	1.13	6.28	0.41	6.29	5.54	6.29	0	0
FM	0.78	0	0.61	4.94	0.02	5.09	4.54	5.09	0	0
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
AM	0	5.69	6.23	6.3	6.3	6.3	6.33	1.01	1.05	0.71
FM	0	4.3	5.09	5.09	5.09	5.09	5.09	0.76	1.06	0.71
PIN'S NUMBER	21	22	23	24						
AM	6.3	5.53	0.78	0.79						
FM	4.28	4.35	0.76	0.78						

TAPE

TAPE PLAY

IC801

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
	13.5	7.07	13.2	0	0.56	0	13.5	7.09	13.2	7.2
PIN'S NUMBER	11	12								
	0.6	0								

IC301

PIN'S NUMBER	1	2	3	4	5	6	7	8	9
	1.84	0	1.85	0	0	7.79	1.86	0	1.84

Q301

	E	C	B
OSC ON	0	0	0.7
OFF	0	0	0

Q302

E	C	B
7.72	8.13	8.12

CD

CDPLAY

IC401

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
	2.44	2.44	2.49	2.49	2.43	2.47	2.45	2.48	2.48	2.46
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
	2.44	2.46	2.47	2.47	2.51	0	2.61	2.47	2.35	2.48
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30
	2.49	2.47	2.43	2.43	2.48	2.58	2.47	2.51	2.26	2.26
PIN'S NUMBER	31	32	33	34	35	36	37	38	39	40
	1.57	0	0.05	0	0	0.06	0.06	4.95	0	2.47
PIN'S NUMBER	41	42	43	44	45	46	47	48	49	40
	4.96	0.04	0.9	0	2.64	0	2.12	2.48	2.49	2.51
PIN'S NUMBER	51	52	53	54	55	56	57	58	59	60
	0.05	4.89	2.47	2.47	0	4.96	2.47	2.47	2.27	2.25
PIN'S NUMBER	61	62	63	64						
	2.27	3.59	0.19	0						

IC402

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
	0.02	0	1.49	0.05	1.16	4.94	2.04	0.06	2.49	2.49
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
	0.07	2.64	0.02	0.02	0.95	0.07	4.94	2.47	0.14	4.95
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30
	0.06	3.07	3.07	0.04	0.05	0.05	0.05	4.94	2.5	0.11
PIN'S NUMBER	31	32	33	34	35	36	37	38	39	40
	2	4.91	4.91	4.83	4.91	3.01	3.09	4.63	0.04	4.96
PIN'S NUMBER	41	42	43	44	45	46	47	48	49	40
	2.85	2.8	4.94	4.94	0.04	0.04	4.96	4.96	4.96	0.05
PIN'S NUMBER	51	52	53	54	55	56	57	58	59	60
	4.96	0	0.05	2.33	4.66	0	2.33	0	0.04	2.08
PIN'S NUMBER	61	62	63	64						
	2.11	4.37	5.03	4.89						

IC403

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
	7.61	4.95	2.51	2.45	3.67	3.13	0	0	0	3.32
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
	3054	246	2.53	4.93	6.39	5.03	4.95	2.46	2.45	2.45
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30
	3.39	0	0	0	3.15	3.66	2.45	2.56	2.45	7.62

Q402

E	C	B
4.95	2.26	4.93

Q403

E	C	B
7.59	4.94	6.91

Q404

E	C	B
4.3	2.35	4.28

Q405

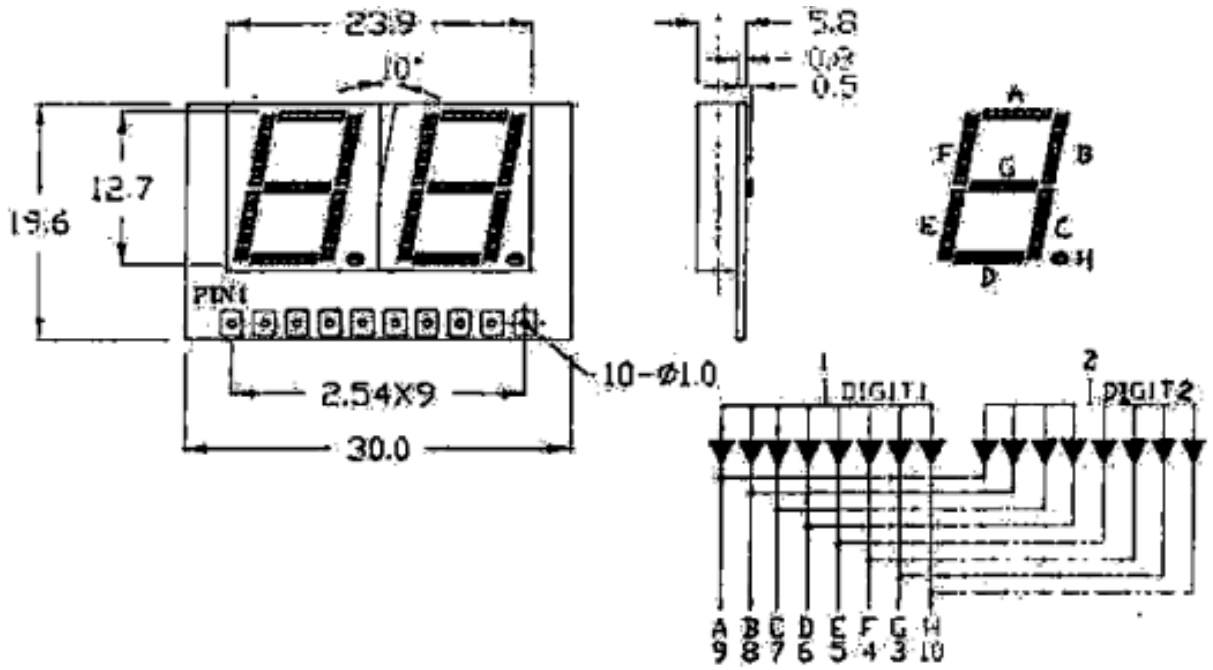
E	C	B
4.32	2.35	4.35

Q408

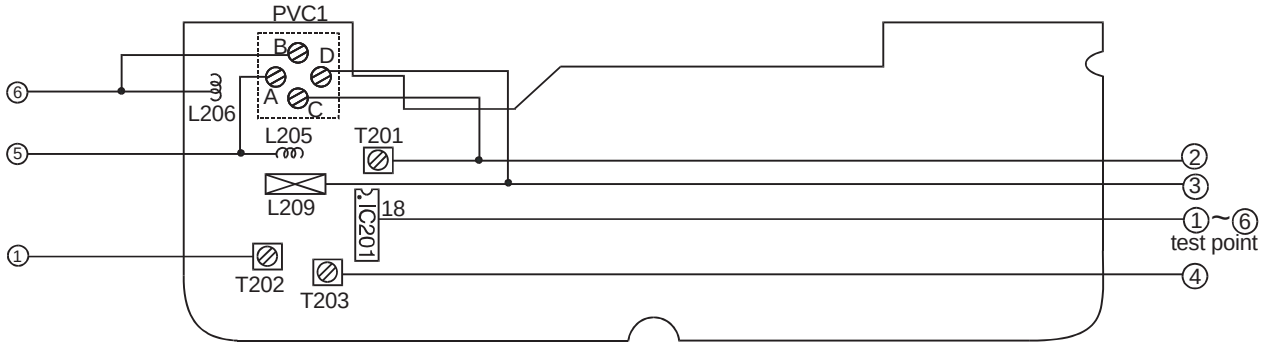
E	C	B
4.96	0	4.93

LCD DIAGRAM -1/1(A505RD-DR)

PRODUCT GENERAL DESCRIPTION



TUNER SECTION



1. AM IF adjustment
   Test point : IC201 (TA2111N) 18Pin
   Adjustment location: T202
   T202 .....465kHz (K/EZ)
   .....455kHz (V)

2. MW frequency range adjustment
   Test point: IC201 (TA2111N) 18Pin
   Adjustment location: T201, PVC1C
   T201 ..... 515kHz
   PVC1C 1635kHz

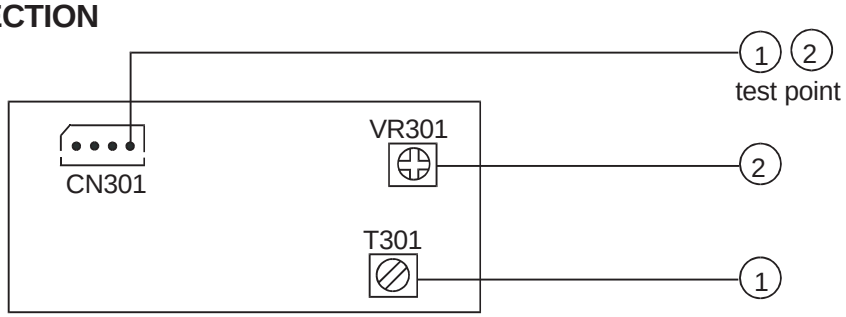
3. MW tracking adjustment
   Test point: IC201 (TA2111N) 18Pin
   Adjustment location: L209, PVC1D
   L209 ..... 600kHz waveform max.
   PVC1D ..... 1400kHz waveform max.

4. FM IF adjustment
   Test point: IC201 (TA2111N) 18Pin
   Adjustment location: T203
   T203 ..... 10.7MHz

5. FM frequency range adjustment
   Test point: IC201 (TA2111N) 18pin
   Adjustment location: L205, PVC1A
   L205 ..... 87.4MHz (K/EZ)
   ..... 87MHz (V)
   PVC1A ..... 108.3MHz (K/EZ)
   ..... 109MHz (V)

6. FM tracking adjustment
   Test point :IC201 (TA2111N) 18Pin
   Adjustment location: L206, PVC1B
   L206 ..... 90MHz waveform max.
   PVC1B ..... 106MHz waveform max.

CASSETTE SECTION

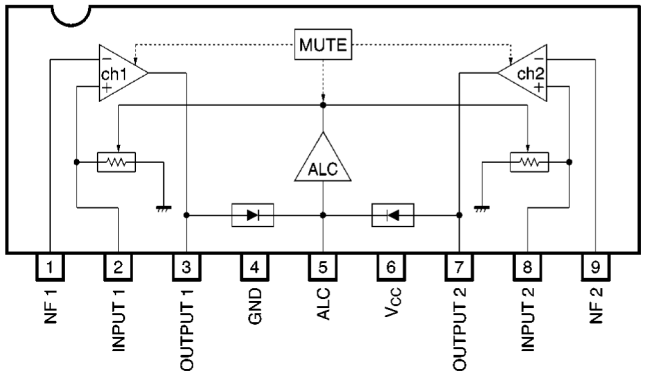


1. Bias frequency adjustment
   Test point: CN301 4Pin
   Adjustment location: T301
   T301 ..... 60±5kHz

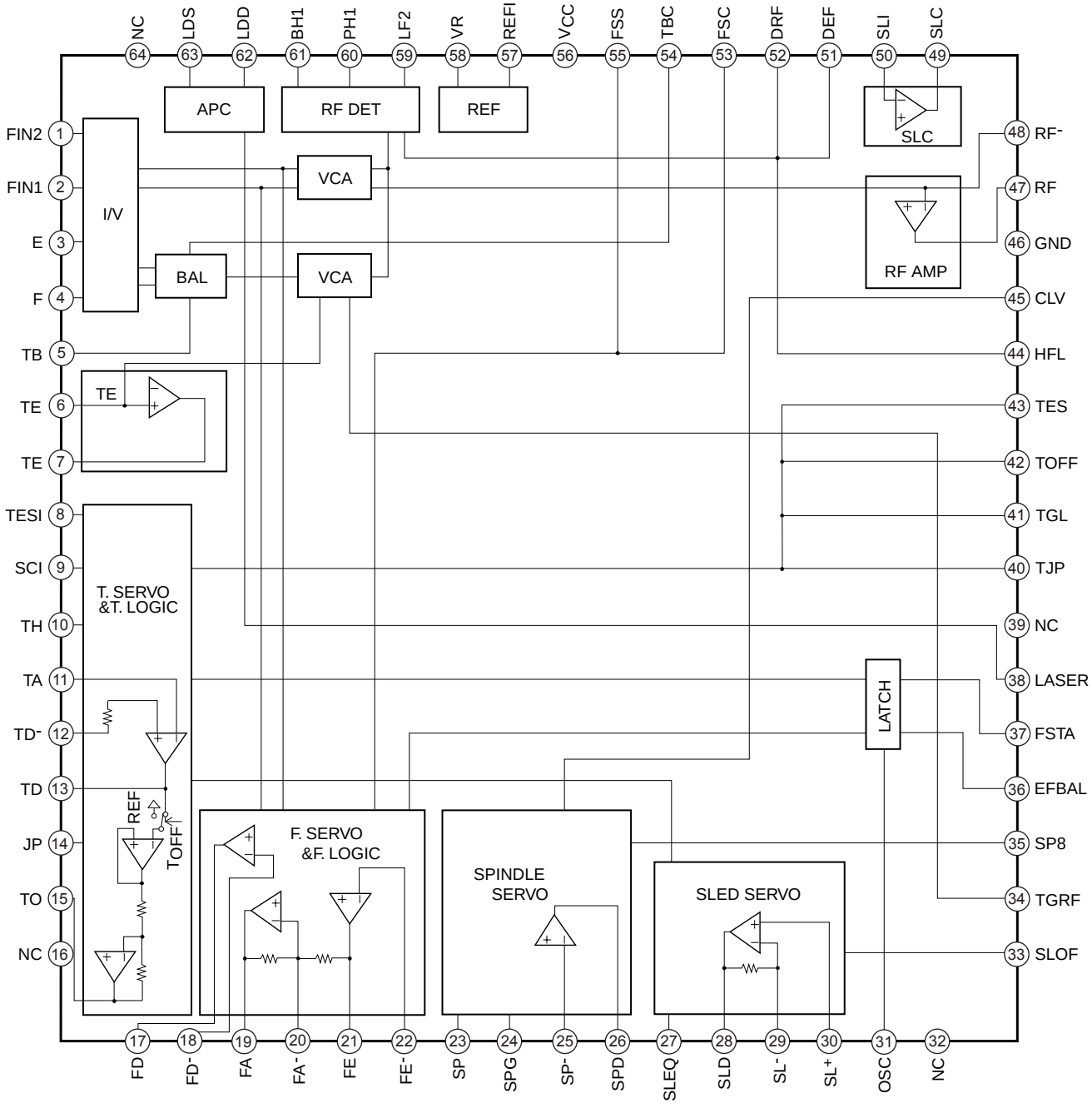
2. Bias level adjustment
   Test point: CON301 4Pin
   Adjustment location: VR301
   VR301 ..... 11V

IC BLOCK DIAGRAM -1/2

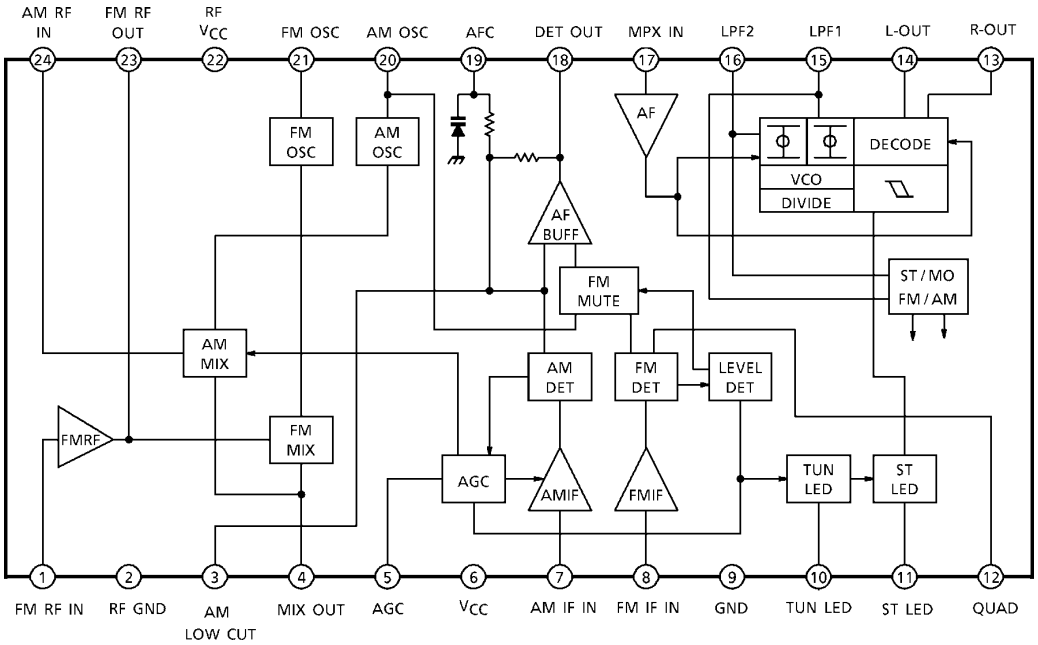
IC, BA3308



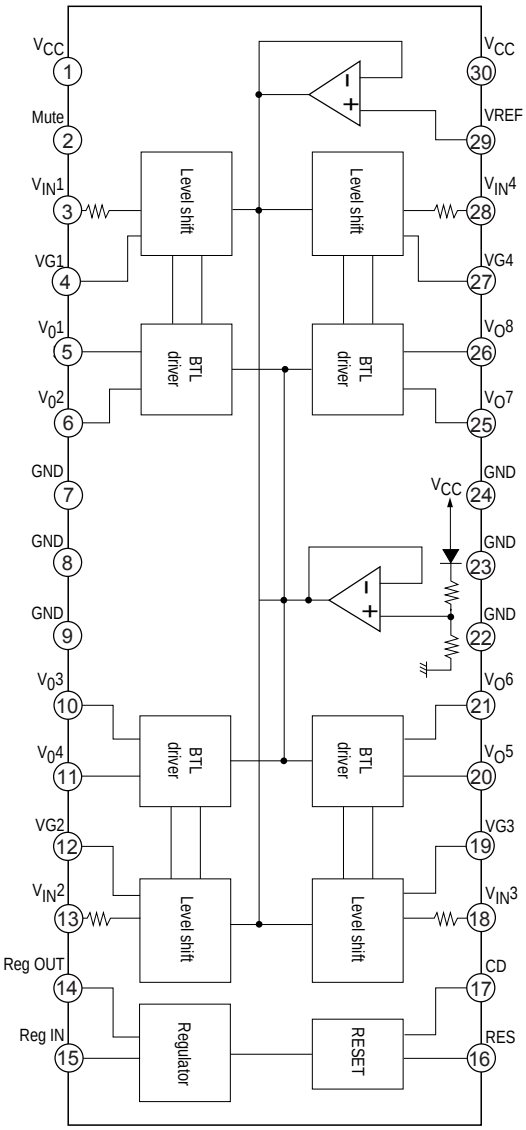
IC, LA9251M



IC, TA2111N



IC, LA6541DLL

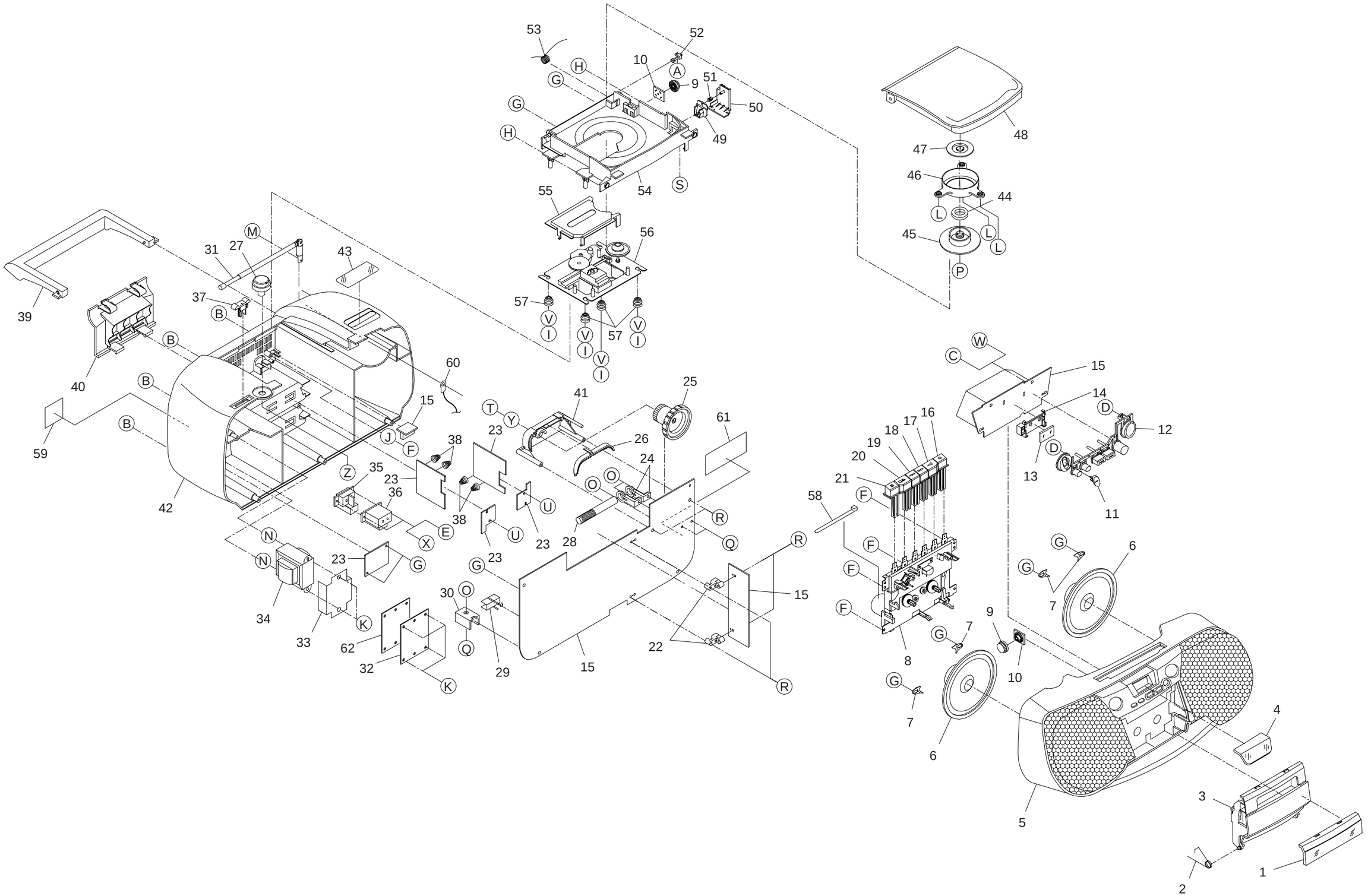


IC DESCRIPTION -1/1 (IC, LC78602HNE-8612D) -1/2

Pin No.	Pin	I/O	Function	
1	DEFI	I	Defect detection signal (DEF) input. (Must be connected to 0V if unused).	
2	SP8	O	SP8 control output. (Not used)	
3	PDO	O	PLL circuit pins	Internal VCO control phase comparator output.
4	VVSS	–		Internal VCO ground. This pin must be connected to 0V.
5	ISET	AI		PDO output current adjustment resistor connection.
6	VVDD	–		Internal VCO power supply.
7	FR	AI		VCO frequency range adjustment.
8	VSS	–	Digital system ground. This pin must be connected to 0V.	
9	EFMO	O	Slice level	EFM signal output.
10	EFMIN	I	Control pins	EFM signal input.
11	TMOD	I	Test input. This pin must be connected to 0V.	
12	CLV	O	Disc motor control output. This is a three-state output.	
13	NC1	O	This pin must be left open. (Not used)	
14	HFL	I	Track detection signal input. This is a Schmitt input.	
15	TES	I	Tracking error signal input. This is a Schmitt input.	
16	TOFF	O	Tracking off output.	
17	TGL	O	Tracking gain switching output. A low level output raises the gain.	
18	JP	O	Track jump control output. This is a three-state output.	
19	NC2	O	This pin must be left open. (Not used)	
20	LASER	O	Laser control output.	
21	FSTA	O	FSTA control output.	
22	VDD3V	–	Internal digital circuit power supply.	
23	EFBAL	O	EFBAL control output.	
24	PCK	O	EFM data playback clock monitor. 4.3218MHz when the phase is locked. (Not used) (Note that this output pin is only provided for testing. Mount a external resistor between VDD5V in order to monitor this signal but connect this pin to the digital groung in normal mode operation.	
25	SLOF	O	Sled off control output.	
26	SLED+	O	Sled feed output.	
27	SLED–	O		
28	PUIN	I	Limit switch detection input. A pull-up resistor is built in.	
29	DOUT	O	Digital output (SPDIF).	
30	NC3	–	This pin must be left open. (Not used)	
31	SEG8	O	Segment output (8). A pull-up resistor is built in.	
32	SEG7	O	Segment output (7). A pull-up resistor is built in.	
33	SEG6	O	Segment output (6). A pull-up resistor is built in.	
34	SEG5	O	Segment output (5). A pull-up resistor is built in.	
35	SEG4	O	Segment output (4). A pull-up resistor is built in.	
36	SEG3	O	Segment output (3). A pull-up resistor is built in.	
37	SEG2	O	Segment output (2). A pull-up resistor is built in.	
38	SEG1	O	Segment output (1). A pull-up resistor is built in.	
39	VSS	–	Digital system ground. This pin must be connected to 0V.	
40	NC4	–	This pin must be left open. (Not used)	
41	DIG2	O	Common driver output (2). A pull-up resistor is built in.	
42	DIG1	O	Common driver output (1). A pull-up resistor is built in.	
43	PROG	O	Program operation monitor. A pull-up resistor is built in.	
44	KEYIN	I	Key matrix input. A pull-up resistor is built in.	
45	NC5	O	This pin must be connected to 0V. (Not used)	

Pin No.	Pin	I / O	Function
46	RANDOM	O	Random mode indieator output. (Low : random mode , high , modes other than random mode).
47	FSEQ	O	Synchronizing signal detection output. Outputs a high level if the synchronizing signal detected from the EFM signal and internally generated synchronizing signal match.
48	DMUTE	O	Driver mute control signal output. (Low : driver mute , High : driver not mute).
49	VDD5V	–	Digital power supply for pins.
50	C2F	O	C2 error signal monitor. (Note that this output pin is only provided for testing. Mount a external resistor between VDD5V in order to monitor this signal but connect this pin to the digital ground in normal mode operation.)
51	AMUTE	O	Audio mute control signal output. (Low : audio mute , High : audio not mute)
52	REMOTE	I	Remote controller signal input.
53	RMTSL2	I	Remote controller identifier input (2). A pull-down resistor is built in. (Open : "0" . Connected to VDD5V : "1")
54	LCHO	O	left channed D/A converter output.
55	L/RVDD	–	D/A converter power supply.
56	L/RVSS	–	D/A converter ground. This pin must be connected to 0V.
57	RCHO	O	Right channel D/A converter output.
58	CLOSE	I	Close switch detection input. A pull-up resistor is built in.
59	RMTSL1	I	Remote controller identifier input (1). A pull-up resistor is built in. (Connected to digital ground : "0" . Open : "1")
60	XOUT	O	Connections for a 16.9344MHz crystal oscillator element.
61	XIN	I	
62	XVDD	–	Crystal oscillator circuit power supply.
63	RES	I	LSI reset input. Applications must be set this pin low temporarily when power is first applied.
64	DRF	I	DRF input.

MECHANICAL EXPLODED VIEW -1/1



MECHANICAL PARTS LIST -1/2

! = ⚠SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL					
						CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
		O	MC1001	8C-CHC-008-010	WINDOW,CASS	a	b	c	d	e	f
		O	MC1002	SC-CDC-140-000	CASS DOOR SPRING CCDC-14 DIA:	a	b	c	d	e	f
		O	MC1003	8C-CDC-005-110	CASS DOOR(SD)	a	.	.	.	.	.
		O	MC1003	8C-CDC-034-010	CASS DOOR (TD)	.	b	.	.	e	f
		O	MC1003	8C-CDC-026-010	CASS DOOR(L)	.	.	c	.	.	.
		O	MC1003	8C-CDC-005-110	CASS DOOR(SD)	.	.	.	d	.	.
		O	MC1004	8C-CDC-008-010	DISP WINDOW(S)	a	b	c	d	e	f
		O	MC1005	8C-CDC-001-010	F.CAB ASSY(S)	a	.	.	d	.	.
		O	MC1005	8C-CDC-030-010	F.CAB ASSY(T)	.	b	.	.	e	f
		O	MC1005	8C-CDC-021-010	F.CAB ASSY(L)	.	.	c	.	.	.
		O	MC1006	S4-080-020-150	SPK,8OHM 2W	a	.	c	d	.	.
		O	MC1006	S4-080-020-140	SPK00004"008OHM0002W w/RED	.	b	.	.	e	f
		X	MC1007	S1-138-540-000	SPKR,CLIP B & C	a	b	c	d	e	f
		X	MC1008	M8-AZK-890-070	CASS.DECK TN-21ZVC-2000	a	b	c	d	e	f
		O	MC1009	8C-CHC-211-010	OIL DAMP GEAR CCHC-41	a	b	c	d	e	f
		O	MC1010	8C-CHC-210-010	DAMP GEAR ALCOM HOLDER	a	b	c	d	e	f
		O	MC1011	8C-CHC-045-010	KEY,SL BASS (S)	a	.	c	d	.	.
		O	MC1011	8C-CHC-019-010	KEY,SL BASS (T)	.	b	.	.	e	f
		O	MC1012	8C-CHC-018-010	KEY,CONT	a	b	c	d	e	f
		O	MC1013	S0-330-400-130	LED,W03304RSD	a	b	c	d	e	f
						CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
		X	MC1014	8C-CHC-207-010	HLDR,LCD	a	b	c	d	e	f
		X	MC1015	S0-0CC-DC4-020	PWB,CCDC-01-01,02,03,08	a	.	c	.	.	.
		O	MC1016	8C-CHC-044-010	KEY,CASS REC (S)	a	.	c	d	.	.
		O	MC1016	8C-CHC-017-010	KEY,CASS REC (T)	.	b	.	.	e	f
		O	MC1017	8C-CHC-043-010	KEY,CASS PLAY (S)	a	.	c	d	.	.
		O	MC1017	8C-CHC-016-010	KEY,CASS PLAY (T)	.	b	.	.	e	f
		O	MC1018	8C-CHC-042-010	KEY,CASS REW (S)	a	.	c	d	.	.
		O	MC1018	8C-CHC-015-010	KEY,CASS REW (T)	.	b	.	.	e	f
		O	MC1019	8C-CHC-041-010	KEY,CASS FF (S)	a	.	c	d	.	.
		O	MC1019	8C-CHC-014-010	KEY,CASS FF (T)	.	b	.	.	e	f
		O	MC1020	8C-CHC-040-010	KEY,CASS STOP (S)	a	.	c	d	.	.
		O	MC1020	8C-CHC-013-010	KEY,CASS STOP (T)	.	b	.	.	e	f
		O	MC1021	8C-CHC-039-010	KEY,CASS PAUSE (S)	a	.	c	d	.	.
		O	MC1021	8C-CHC-012-010	KEY,CASS PAUSE (T)	.	b	.	.	e	f
		O	MC1022	S2-23L-H60-000	(F550-223LH6-000) SUPPORT BRA	a	b	c	d	e	f
		X	MC1023	S0-0CC-DC4-010	PCB CCDC-01-04,05,06,07 (94V0	.	.	c	d	.	.
		X	MC1024	S2-500-000-000	(F550-250000-000) ANTENNA BAR	a	b	c	d	e	f
		O	MC1025	8C-CDC-007-010	KNOB,RTRY TU S	a	.	c	d	.	.
		O	MC1025	8C-CDC-036-110	KNOB,RTRY TU T	.	b	.	.	e	.
		O	MC1025	8C-CDC-036-110	KNOB,RTRY TU T	.	.	.	.	.	f
						CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
		O	MC1026	8C-CDC-006-010	POINTER,TU	a	b	c	d	e	f
		O	MC1027	8C-CHC-038-010	KNOB,RTRY VOL S	a	.	.	.	.	.
		O	MC1027	8C-CHC-011-010	KNOB,RTRY VOL T	.	b	.	.	e	.
		O	MC1027	8C-CHC-038-010	VOLUME KNOB(S)	.	.	c	d	.	.
		O	MC1027	8C-CHC-011-010	KNOB,VOLUME (T)	.	.	.	.	.	f
		O	MC1028	SA-RU2-616-010	FERRI,BAR 10-70MM	a	b	c	d	e	f
		X	MC1029	S3-838-000-000	HEAT SINK	a	b	c	d	e	f
		X	MC1030	S0-CDG-740-000	HEAT SINK CDG-74 T=2.0mm ALUM	a	b	c	d	e	f
		O	MC1031	S0-101-950-000	ANTRD-0400-227D2S5.2S TL5.2-1	a	b	c	d	e	f
		X	MC1032	SB-CDC-200-000	TF PLATE BCDC-20 T=1.0mm (E.G	a	b	c	d	e	f
		X	MC1033	SC-CDC-340-000	SHIELD PAPER	a	b	c	d	e	f
	!	O	MC1034	S3-801-391-400	PT001WEI48/18&F&WEN& 230V:11.	a	b	c	d	e	f
	!	O	MC1035	S2-201-000-070	AC SOCKET PSE27 DAIICHI 2.5A/	a	b	.	.	e	.
	!	O	MC1035	87-A60-178-010	AC SOCKET PSE27	.	.	c	d	.	f
		O	MC1036	S2-838-070-000	AC SOCKET COVER BLK	a	b	c	d	e	f
		O	MC1037	8C-CHC-037-010	KNOB,SL FUNC (S)	a	.	c	d	.	.
		O	MC1037	8C-CHC-010-010	KNOB,SL FUNC (T)	.	b	.	.	e	f
		O	MC1038	S1-790-200-000	BATTERY SPRING 1790-20 SPRING	a	b	c	d	e	f
		O	MC1039	8C-CHC-048-010	HANDLE,(S)	a	.	.	d	.	.
		O	MC1039	8C-CHC-022-010	HANDLE,(T)	.	b	.	.	e	.
						CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
		O	MC1039	8C-CHC-070-010	HANDLE,(L)	.	.	c	.	.	.
		O	MC1039	8C-CHC-022-110	HANDLE(T)	.	.	.	.	.	f
		O	MC1040	8C-CHC-036-010	COVER,BATTERY (S)	a	.	.	d	.	.
		O	MC1040	8C-CHC-009-010	COVER,BATTERY (T)	.	b	.	.	e	f
		O	MC1040	8C-CHC-067-110	BATTERY COVER(L)	.	.	c	.	.	.
		X	MC1041	8C-CDC-203-010	TU HOLDER	a	b	c	d	e	f
		O	MC1042	8C-CDC-003-110	R.CAB(S)	a	.	.	.	.	.
		O	MC1042	8C-CDC-032-110	R.CAB(T)	.	b	.	.	e	.
		O	MC1042	8C-CDC-023-010	R.CAB(EXL)	.	.	c	.	.	.
		O	MC1042	8C-CDC-003-110	R.CAB(S)	.	.	.	d	.	.
		O	MC1042	8C-CDC-032-110	R.CAB(T)	.	.	.	.	.	f
		O	MC1043	8C-CDC-011-010	WINDOW,TUS K	a	.	.	d	.	.
		O	MC1043	8C-CDC-014-010	WINDOW,TUT K	.	b	.	.	e	.
		O	MC1043	8C-CDC-017-010	WINDOW,TUL K	.	.	c	.	.	.
		O	MC1043	8C-CDC-065-010	WINDOW,TUT V	.	.	.	.	.	f
		O	MC1044	S0-000-030-000	MAGNET “SONY” FOR TOP LOADING	a	b	c	d	e	f
		O	MC1045	S6-301-560-000	(F500-630156-000) CD CHUCK 63	a	b	c	d	e	f
		O	MC1046	S1-892-190-000	(F550-189219-000) CD CHUCK HO	a	b	c	d	e	f
		O	MC1047	S0-768-660-010	CD CHUCK HOLDING PLATE 768-66	a	b	c	d	e	f
		O	MC1048	8C-CDC-004-010	CD DOOR(S)	a	.	.	d	.	.

MECHANICAL PARTS LIST -2/2

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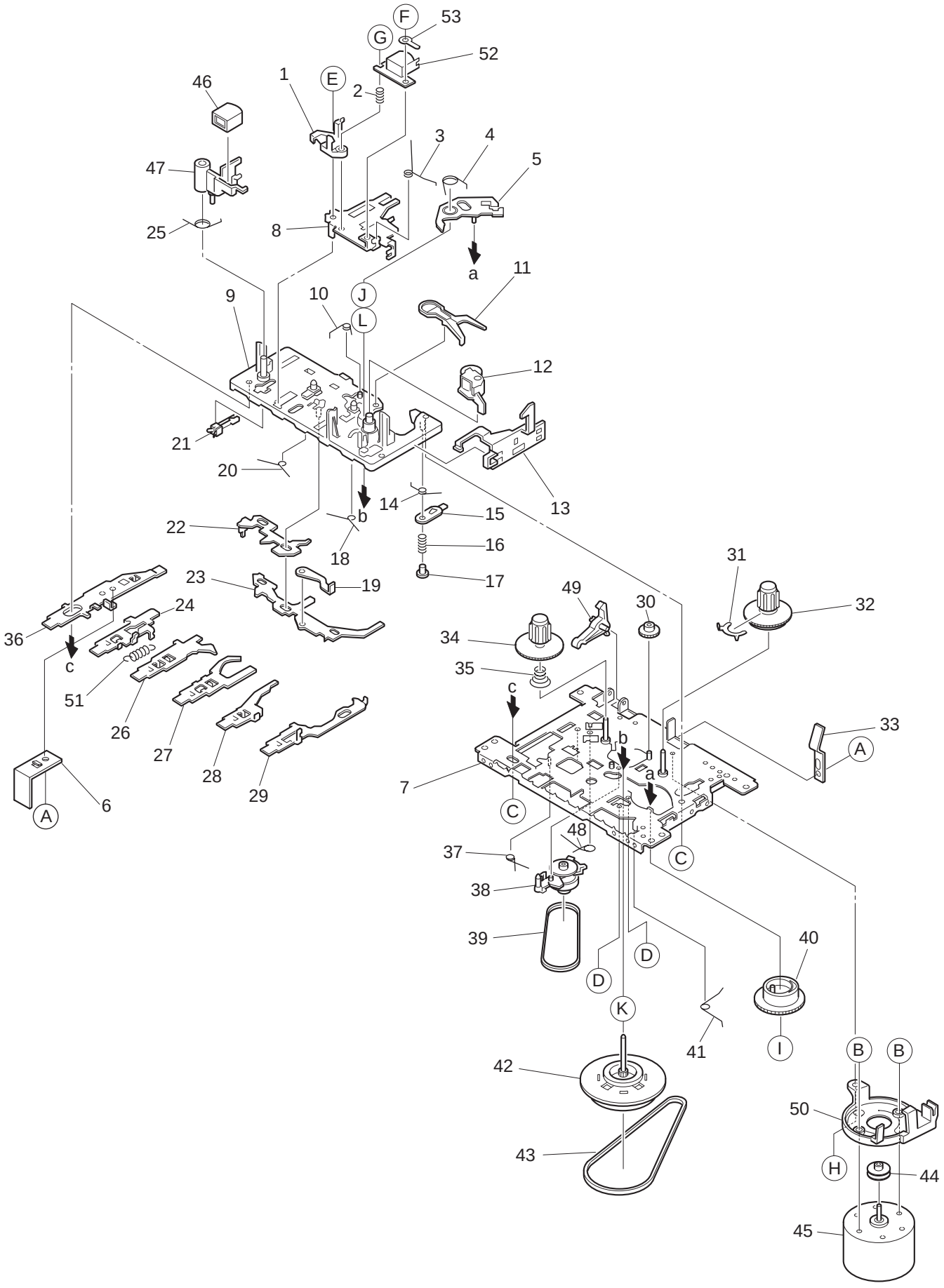
UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL					
						CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
		O	MC1048	8C-CDC-033-110	CD DOOR(T)	.	b	.	.	e	.
		O	MC1048	8C-CDC-024-010	CD DOOR(EXL)	.	.	c	.	.	.
		O	MC1048	8C-CDC-033-110	CD DOOR(T)	.	.	.	.	.	f
		O	MC1049	8C-CDC-204-010	LEVER,CD LOCK	a	b	c	d	e	f
		O	MC1050	8C-CDC-205-010	HLDR,CD LOCK	a	b	c	d	e	f
		O	MC1051	SB-CH8-270-000	LOCK SPRING BCH8-27 MAT'L=SUS	a	b	c	d	e	f
		O	MC1053	SC-CDC-280-000	CD LID SPRING CCDC-28 DIA:1.2	a	b	c	d	e	f
		O	MC1054	8C-CHC-006-010	CHAS,CD	a	.	.	d	.	.
		O	MC1054	8C-CHC-024-010	CHAS,CD (T)	.	b	.	.	e	f
		O	MC1054	8C-CHC-066-010	CHAS,CD (L)	.	.	c	.	.	.
		O	MC1055	SB-CDC-290-000	CD COVER BCDC-29 MOLDED BLACK	a	b	c	d	e	f
		O	MC1056	M8-CZK-490-070	KSM-213RDM	a	b	c	d	e	f
		O	MC1057	S1-892-390-010	CD CUSHION 1892-39 HARDNESS T	a	b	c	d	e	f
		X	MC1058	S0-001-000-000	CABLE/PLASTIC TIE	.	.	c	d	.	f
	!	O	MC1059	SC-CDC-320-000	AC VOLTAGE PLATE CCDC-32 T=0.	a	b	c	d	e	f
		X	MC1060	S3-000-000-000	SOLDERING LUG	a	b	c	d	e	f
		X	MC1061	SC-CDC-350-000	FIBER PAPER	a	b	c	d	e	f
		X	MC1062	SC-CDC-330-000	SHIELD PLATE (FOR TF) CCDC-33	a	b	.	.	e	.
		X	MC1A	87-357-036-010	SCREW ST 2-8	a	b	c	d	e	f
		O	MC1B	87-741-104-410	SCREW,ST3-30MM PAB	a	b	c	d	e	f
						CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
		O	MC1C	87-352-075-210	VT2+2.6-10	.	.	c	d	.	f
		O	MC1D	87-743-073-410	SCREW,ST2.6-6MM	a	b	c	d	e	f
		O	MC1E	S0-402-601-200	SCREW,ST2.6x12 PWB2/AC	.	.	c	d	.	f
		O	MC1F	87-352-095-010	SCREW,ST3-8	a	b	c	d	e	f
		O	MC1G	87-741-096-410	SCREW,ST3-10MM	a	b	c	d	e	f
		O	MC1H	87-B10-071-010	SCREW,ST3-15	a	b	c	d	e	f
		O	MC1I	S1-102-601-720	SCREW ST2.6x17mm BB w/CHROMAT	a	b	c	d	e	f
		O	MC1J	S2-032-120-800	METAL WASHER O3.2xO12x0.8mm	a	b	c	d	e	f
		O	MC1K	87-741-103-410	SCREW,ST3-25	a	b	c	d	e	f
		O	MC1L	S1-402-600-600	SCREW ST2.6x6mm, KB BRASS BAS	a	b	c	d	e	f
		X	MC1M	87-343-075-210	SCREW,2.6-10	a	b	c	d	e	f
		O	MC1N	87-261-095-410	V+3-8	a	b	c	d	e	f
		O	MC1O	87-741-096-410	SCREW,3-10MM PM	a	b	c	d	e	f
		O	MC1P	87-263-033-010	SCREW,2-4	a	b	c	d	e	f
		O	MC1Q	S6-CS3-217-010	NUT M3x0.5 PITCH Ni	a	b	c	d	e	f
		O	MC1R	S0-203-001-010	SCREW,ST3x10mm KAB BRASS BASE	.	.	c	d	.	f
		O	MC1S	87-261-095-410	SCREW,ST3-8MM HEAD V5.9-6.3 B	.	.	c	d	.	f
		O	MC1T	87-261-072-410	SCREW,PM 2.6-5	a	b	c	d	e	f
		O	MC1U	87-741-094-410	SCREW,ST3-6	.	.	c	d	.	f
		O	MC1V	S2-028-095-500	METAL WASHER DIA:2.8/DIA:9.5x	a	b	c	d	e	f
						CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
		X	MC1W	87-343-075-210	SCREW,ST 2.6-10	a	b	.	.	e	.
		O	MC1X	S0-202-601-000	SCREW,ST2.6-10	a	b	.	.	e	.
		O	MC1Y	S1-026-000-000	TOOTH WASHER 2.6MM	a	b	c	d	e	f
		O	MC1Z	S5-061-085-500	WASHER,PVC VOLUME	a	b	.	.	e	.

COLOR NAME TABLE -1/1

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray
HM	Metallic Gray	NH	Champagne Gold	M	Wood Pattern

MECHANISM EXPLODED VIEW -1/1 (TN-21ZVC-2000)



MECHANISM PARTS LIST -1/1 (TN-21ZVC-2000)

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
						2000 TN-21ZVC
		O	ST1001	S1-921-030-4A0	HEAD BASE	a
		O	ST1002	S1-821-030-070	AZIMUTH SPRING	a
		O	ST1003	S1-921-030-090	PANEL P SPRING	a
		O	ST1004	S1-921-260-050	GEAR PLATE SPRING	a
		O	ST1005	S1-921-265-020	GEAR PLATE ASSY	a
		O	ST1006	S1-510-020-020	REC SPRING PLATE	a
		O	ST1007	S1-921-015-010	CHASSIS ASSY	a
		O	ST1008	S1-921-030-110	HEAD PANEL	a
		O	ST1009	S1-921-143-160	BASE ASSY	a
		O	ST1010	S1-921-141-8A0	M CONTROL SPRING	a
		O	ST1011	S1-921-260-4A0	SENSING LEVER	a
		O	ST1012	S1-921-043-100	PINCH ROLLER ARM ASSY	a
		O	ST1013	S1-921-130-010	EJECT SLIDE LEVER	a
		O	ST1014	S1-921-141-3A0	P CONTROL SPRING	a
		O	ST1015	S1-921-140-550	PAUSE LEVER(E)	a
		O	ST1016	S1-921-140-120	PAUSE LEVER SPRING	a
		O	ST1017	S1-921-140-110	PAUSE STOPPER	a
		O	ST1018	S1-921-140-150	BUTTON LEVER SPRING(B)	a
		O	ST1019	S1-821-011-590	E KICK LEVER	a
		O	ST1020	S1-921-141-070	BUTTON LEVER SPRING(A)	a
						2000 TN-21ZVC
		O	ST1021	S6-401-011-490	LEAF SW MSW-1541T	a
		O	ST1022	S1-921-140-090	SWITCH ACTUATOR	a
		O	ST1023	S1-921-140-080	PUSH BUTTON ACTUATOR	a
		O	ST1024	S1-921-140-190	PLAY BUTTON LEVER	a
		O	ST1025	S1-921-030-100	MG ARM SPRING	a
		O	ST1026	S1-921-140-040	REW BUTTON LEVER	a
		O	ST1027	S1-921-140-050	FF,BUTTON REVER	a
		O	ST1028	S1-921-140-060	STOP BUTTON LEVER	a
		O	ST1029	S1-921-140-600	PAUSE BUTTON LEVER	a
		O	ST1030	S1-821-100-700	FF GEAR	a
		O	ST1031	S1-921-050-060	SENSER	a
		O	ST1032	S1-921-053-100	TAKE UP REEL ASSY	a
		O	ST1033	S1-829-100-010	PACK SPRING	a
		O	ST1034	S1-921-050-150	S REEL HUB	a
		O	ST1035	S1-921-050-220	BACK TENSION SPRING	a
		O	ST1036	S1-921-140-030	REC BUTTON LEVER	a
		O	ST1037	S1-921-140-170	P.S.LEVER SPRING	a
		O	ST1038	S1-921-073-040	RF CLUTCH ASSY	a
		O	ST1039	S1-921-070-030	RF BELT	a
		O	ST1040	S1-921-260-020	CAM GEAR	a
						2000 TN-21ZVC
		O	ST1041	S1-921-140-160	E ACTUATOR SPRING	a
		O	ST1042	S1-921-093-210	FLYWHEEL ASSY	a
		O	ST1043	S1-921-090-380	MAIN BELT	a
		O	ST1044	S1-921-120-590	MOTOR PULLEY	a
		O	ST1045	S1-212-240-020	(F151-121224-000) MOTOR-DC-01	a
		O	ST1046	S0-103-800-000	ER/HEAD-6P-TDK&&&&&& #PHK380M	a
		O	ST1047	S1-921-030-050	MG ARM	a
		O	ST1048	S1-921-140-210	REC BUTTON LEVER SPRING	a
		O	ST1049	S1-821-100-690	RECORD SAFETY LEVER	a
		O	ST1050	S1-821-128-9A0	MOTOR BRACKET	a
		O	ST1051	S1-821-010-500	PLAY BUTTON LEVER SPRING	a
		O	ST1052	S0-209-510-020	RP/HEAD-ST-TECHRECO& #TC951(0	a
		X	ST1053	S9-F04-302-040	B3 LUG PLATE	a
		O	ST1A	S9-P04-200-310	C TAPPING SCREW 2-3	a
		O	ST1B	S1-921-120-020	MOTOR COLLER SCREW	a
		O	ST1C	S9-B10-200-510	P TAPPING BIND SCREW M2-5	a
		O	ST1D	S9-C07-204-510	SCREW,TAPPING(CAMERA)M2-4.5	a
		O	ST1E	S9-P01-200-610	SCREW,M2-6	a
		O	ST1F	S9-B01-200-310	(+)BIND SCREW M2-3	a
		O	ST1G	S9-F08-200-710	AZIMUTH SCREW M2-7	a
						2000 TN-21ZVC
		O	ST1H	S1-921-120-030	MB SCREW	a
		O	ST1I	S9-W02-300-100	P WASHER CUT 1.2-3.8-0.3	a
		O	ST1J	S9-W02-500-100	P WASHER CUT 1.45-3.8-0.5	a
		O	ST1K	S9-W01-400-100	P WASHER 2-3.5-0.4	a
		O	ST1L	S9-W01-130-200	P WASHER 2.1-4-0.13	a

OTHER PARTS LIST -1/1 (CSD-A190)

! = ⚠SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL					
						CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
		X		S3-000-000-020	SOLDERING PIN	a	b	c	d	e	f
		X		87-056-770-010	COLOR LABEL(SILVER)	a	.	.	d	.	.
		X		87-057-961-010	CAUTION LABEL	a	b	c	d	e	f
		X		8A-CH4-040-010	CAUTION LABEL(RW-E)	a	b	c	d	e	f
		X		S9-938-560-000	SPK. BOX FELT 80x8x0.3mm, 993	.	.	c	d	.	f
		X		87-CD8-229-010	SPONGE 15-10	.	.	c	d	.	.
		X		87-B50-079-010	FACILITY LIST(B)	a	b	c	d	e	f
		X		87-B40-281-010	LBL,BAR CODE(A-35-8)	a	b	c	d	e	f
		X		87-057-995-010	LBL,CLASS 1	a	b	c	d	e	f
		X		87-B40-085-010	POLY BAG 0.045-8.5-14	a	b	c	d	e	f
		X		8C-CDC-851-010	POLYFOAM,CCDC-90 #2691	a	b	c	d	e	f
		X		87-056-168-010	INFORMATION WARRANTY SHEET	a	b	c	d	e	.
		X		8C-CDC-971-010	POP LABEL (K)	a	b	c	d	e	.
		X		S0-401-300-000	PE POLY BAG 0.045x4"x13" w/RE	a	b	c	.	e	f
		X		S0-600-450-220	POLYFOAM SHEET 60mmx45mmx22mm	a	b	.	.	e	.
		X		8C-CDC-854-010	G/B (EZST)	a	b	.	.	e	.
		X		8C-CDC-052-010	SPEC LBL(EZ)	a	b	.	.	.	.
		X		87-056-926-010	LBL,COLOR BLU	.	.	c	.	.	.
		X		S0-600-400-200	POLYFOAM BAR S:60x40x20	.	.	c	d	.	f
		X		8C-CDC-854-010	G/B(EZST)	.	.	c	d	.	.
						CSD-A190 EZSC	CSD-A190 EZSTC	CSD-A190 EZLC	CSD-A190 KSC	CSD-A190 KSTC	CSD-A190 VSTC
		X		8C-CDC-052-110	SPEC LBL(EZ)	.	.	c	.	.	.
		X		S0-000-0D0-090	LBL,DIFFERENCE	.	.	.	d	.	.
		X		8C-CDC-051-010	SPEC LBL(K)	.	.	.	d	e	.
		X		S0-402-600-000	PE POLY BAG 0.045x4"x26"	.	.	.	d	.	.
		X		87-056-864-010	DIFFERENCE LABEL <K>	.	.	.	.	e	.
		X		8C-CDC-975-010	POP LABEL(V)	.	.	.	.	.	f
		X		8C-CDC-058-010	SPEC LBL(V)	.	.	.	.	.	f
		X		8C-CDC-878-010	G/B(VST)	.	.	.	.	.	f

アイワ株式会社
AIWA CO.,LTD.
〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110-8710, JAPAN TEL:03 (3827) 3111

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